

# **CATALOGUE OF THE FLORA OF THE BAHÍA HONDA REGION (VERAGUAS, PANAMA)**

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1. Introduction
  2. Methods
  3. Geographical Affinities of the Flora of Bahía Honda
  4. Acknowledgements
  5. Floristic Catalogue
  6. Bibliographic References
- Appendix I (Ferns)
- Appendix II (Angiosperms)

## **1. Introduction**

In the "Flora of Panama" (Woodson & Schery, 1943-1980), the main reference work in the Panamanian territory, 5,314 species of vascular plants are recognized. Today, however, we can count 10,572 species, 9,627 angiosperms and gymnosperms, and 945 pteridophyta (Correa & *al.*, 2003b). This makes of Panama, with a total area of 75,517 sq. km, one of countries with the highest

rates of  $\alpha$ -diversity in the world, 21 times higher than that of Brazil and four times that of Colombia (Correa, 2001). This enormous diversity is due to its geographic situation and its orography, with mountains of over 3,000 m that run parallel to the coastline and comprise a wide variety of habitats, further enriched by Panama's role as a land bridge between the northern and southern American continents. All species which migrated in both directions after the closing of the isthmus, 3 million years ago, have had to pass through this territory. All this has also meant a high rate of endemism (number of endemic species in relation to the total number of species), which according to Correa & *al.* (2003b) is 11%.

Owing to the publication of the "Flora of Panama", many authors have considered Panamanian flora reasonably well known. However, most of the collections on which this work was based were obtained in a heterogeneous and intermittent manner. The Canal Zone area and the immediate vicinity of the roads are all well-represented while much less is known of the flora of some provinces. For example, for Veraguas province we only found citations of collections made in localities near the Panamerican highway, around Santiago de Veraguas, in the mountainous forests of Santa Fé in the Cordillera Central and on the Island of Coiba (Woodson & Schery, 1943-1980). According to Correa & *al.* (2003b), 2,140 vascular plant species have been cited for Veraguas, of which 184 are endemic to the Panamanian territory.

The inventory of flora which we have carried out in the island of Canales de Tierra and Bahía Honda surroundings, a very isolated region in southern Veraguas province and previously ignored by botanists, is of great interest for the reasons stated.

## **2. Methods**

An initial inventory of the flora of any region involves the collection of as many plants as possible and their study in the herbarium of a research institution. We collected intensively from all groups of vascular plants (ferns and angiosperms) during various expeditions to the study area.

A team of botanists from the Real Jardín Botánico, Madrid (CSIC, Spain), the Universidad de Panamá and the Universidad Nacional de Colombia made their first visit of 9 days during the rainy season of July 2001. Three other expeditions were made the following year. The first of them at the start of the dry season (January and February) lasting 13 days. In March, a second one took 3 days while a third expedition in May, 9 days. This has meant a total of 34 fieldwork days of intensive collection. A further 20 days were needed to study the two forest research-plots which were installed in the area.

During these field trips, 1,537 collection numbers, 538 from the island of Canales de Tierra and 999 from the mainland, corresponding to 4,308 specimens were taken. A first specimen of each number has been deposited at the herbarium of the Universidad de Panamá (PMA), while a second and a third were sent to the Real Jardín Botánico (Madrid, CSIC) and to the future herbarium of the Liquid Jungle Lab on Canales de Tierra, respectively. Spare ones have been given to the Smithsonian Tropical Research Institute (STRI) in Panamá (SCZ), the Missouri Botanical Garden Herbarium (MO) and the herbarium of the Instituto de Ciencias Naturales of the Universidad Nacional de Colombia (COL). Only a few of the very commonest species were not collected, such as *Cocos nucifera* (*Arecaceae*), *Aechmea magdalenae* (*Bromeliaceae*), *Gynerium sagittatum* (*Poaceae*), etc. However, they are included in the catalogue since they are obvious components of the landscape.

Most of the specimens have been identified up to their specific rank. In the cases families and genera were especially complex and we were unable to reach a trustworthy determination, we applied a provisional code-name (morphospecies). Their definitive names will not be given until a specialist with more and better material has scientifically interpreted these forms.

The list includes the native species, naturalized species (those native to other regions which reproduce spontaneously in the area) and the cultivated ones. In the case of these two latter categories, it is said so in either the world distribution or habitat of the species. We have followed Mabberley's (1987) criteria to determine the families, considering *Cecropiaceae* as independent from *Moraceae*, and *Fabaceae* in its wide sense as encompassing the three

classic subfamilies: *Cesalpinoideae*, *Papilionoideae* and *Mimosoideae*. We have tried to follow the nomenclature for families used by the authors of the "Database of the Flora of Panama" (Correa & al., 2003b), so that we use *Fabaceae* instead of *Leguminosae*, *Asteraceae* instead of *Compositae*, *Arecaceae* instead of *Palmae*, *Clusiaceae* instead of *Guttiferae* and *Lamiaceae* instead of *Labiatae*.

Up to date, we recognize 671 vascular plant species (634 angiosperms and 37 ferns) for Canales de Tierra Island and Bahía Honda area. Of these, 53 belong to the morphospecies category. This total will significantly increase when more of this area is explored, or the same areas more intensely.

In our catalogue, we list both the species and morphospecies grouped in families and in alphabetical order. The following information for each is included:

- The accepted correct *Scientific name*.

- *Common name* (CN) used in the area, in parenthesis (BH) and other regions of Panama following Correa & al. (2003a). (K) refers to the names for the Kuna Yala region and (G) for Guami names of the Ngöbe-Buglé area according to Gupta & al., (1992), Joly & al., (1987), Joly & al., (1990), Herrera, (1991), Gupta & al., (1993) & Paredes & Herrera, (1997). We include the English common name of the species used in English-speaking areas of the Caribbean.

- *Synonyms* (SY) of each specific name. We consider it useful to include the former scientific names for each species, as there have been frequent changes in the nomenclature of the genera and families after taxonomic revisions.

- *Habit* (HA) or life-form of the plants, that is: tree, shrub, palm, vine, liana and herb. Included are descriptive terms such as: epiphyte, parasite, or saprophytic, terrestrial and aquatic plant.

- *Habitat* (HB) of each species: whether it grows predominantly in mangroves, swamps or flooded areas, beaches, scrub, open areas, secondary forests or mature forests.

- We include the *localities* (LO) where the species has been collected on Canales de Tierra Island and the Bahía Honda area, in this case meaning anywhere on the mainland. It is shown with (ITC) in the first case and (BH) in the second.

- The *distribution in Panama* (DP) registered for each species and considering the provinces where they have been previously collected, according to Correa & *al.* (2003b). We use the following abbreviations: bo: Bocas del Toro / ca: Canal Area / cc: Coclé / ch: Chiriquí / cn: Colón / da: Darién / he: Herrera / lo: Los Santos / pa: Panamá / sa: San Blas-Kuna Yala / vr: Veraguas.

- The *altitude* (AL) at which the species was collected in any of the Panamanian provinces, according to Correa & *al.* (2003b). We use the following abbreviations: 0: 0-1,000 m / 1: 1,000-2,000 m / 2: 2,000-3,000 m / 3: higher than 3,000 m. This gives an idea of the ecological range of the species. For example, a species found at sea level and up to 3,000 m has a great tolerance for different environmental conditions.

- The *world distribution* (WD) of the species according to the information recently published in the "Flora of Nicaragua" (Stevens & *al.*, 2001) and that provided by the database of the Missouri Botanical Garden -TROPICOS (2003). Most of the species are only present in the Neotropics, although some are native to other latitudes and have been introduced into Panama.

- Information about the *use* (US) of the plants recorded by the authors in Bahía Honda, shown as (BH), and in other areas in Panama reported by different authors. Occasionally, uses of plants in other Central American areas are included. In any case, original references and sources are cited.

- References to *Voucher specimens* (VS) for each species are also given. The initials SC correspond to the collecting numbers of Santiago Castroviejo, AI to

those of Alicia Ibáñez, JLFA to Jose Luis Fernández Alonso and NSA to Noris Salazar.

- In the cases we have one or more *photographs* (Photo) of the species, a reference to it (or them) is made. Most of the pictures were taken by Niko López. When they are of somebody else, this is indicated in brackets. So, (AE) means Álex Espinosa, (MAG) Miguel Angel García, (SC) Santiago Castroviejo and (AI) Alicia Ibáñez.

This inventory represents the first study of its kind on the continental Pacific coast of the Veraguas province whereby all the information we provide is new and original.

Some of the more interesting results of this work are the probable new additions of species to the Panamanian flora checklist (species previously known from other countries). There are two new records for Panama, *Centrosema virginianum* (L.) Benth. (*Fabaceae*) and *Cestrum fragile* Francey (*Solanaceae*).

The presence of *Tetrorchidium rotundatum* Standl (*Euphorbiaceae*), a tree known for SW Mexico to Costa Rica, is now also recognized for Panama. Although we had heard of its presence in the Cerro Hoya National Park (Carrasquilla, per. Com.; Deago, 2001), we have not been able to examine a single specimen in the herbarium.

The tree, *Pausandra trianae* (Müll. Arg.) Baill. (*Euphorbiaceae*), was previously known only for the Caribbean forests.

More time should be spent on those plants identified as morphospecies. Their vegetative cycles should be followed up and more material should be collected, as it is likely that among them there are new species to science.

### 3. Geographical Affinities of the Bahía Honda Flora

The great geological events at the end of the Tertiary period, such as the formation of the Panama isthmus or the appearance of the Andean Cordillera, together with the climatic changes of the Pleistocene, have definitely

conditioned the origin, composition and geographical distribution of the Latin-American flora as we know it today.

Most of the tree and liana species in the lowlands of Panama, as in the case of our study region, originated in South America –mainly in the Amazonian region- and supposedly arrived after the formation of the isthmus about three million years ago. This hypothesis is supported by the low rate of speciation (level of new species formation), which also means a low rate of endemism (numbers of endemic species in relation to the total number of species). This applies to the greater part of the Central American lowlands (Gentry, 1985).

However, the situation is quite different in the case of epiphytic plants, palms (palmettos) and understorey shrubs. These present a greater affinity to those of the northern Andes and show a high rate of speciation and endemism in Panama, though mostly in the mountain cloud forests and in very humid forests of the country. For one of these groups of epiphytes, the orchids (*Orchidaceae*), we can affirm that the greatest density of species and endemics in Central America occurs at altitudes of around 1,500 m (R. Dressler, per.com.).

*Lonchocarpus chiricanus*, from Chiriquí and Veraguas, *Piper pinoganense*, from the Canal Area, Chiriquí, Darien, Los Santos and Veraguas, and *Protium tenuifolium* ssp. *mcleodii* (*Burseraceae*), from Darién, Panamá and Veraguas, are all species endemic to Panama and present in the Bahía Honda area.

To understand the geographical affinities of the flora of the Bahía Honda region we studied the general distribution of each of the species. We analysed the geographic distribution of 616 of the 671 species inventoried in the area. The so-called morphospecies and two species with uncertain distribution were excluded from the analysis due to the impossibility of determining their distribution outside this area. All species have been grouped into 6 categories or floristic elements, coinciding with those used by Croat & Busey (1975) (Fig. 1):

1. *Pantropical element*. Plants native to tropical Asia, Africa or the Pacific Islands and introduced into America. Most of them are cultivated or naturalized wild plants growing in scrub, open and disturbed areas.

2. *Neotropical element*. Widely distributed throughout the Neotropical region, from S of Mexico to Amazonia.

3. *South American element*. Found from the S of Central America, Costa Rica or Panama to Amazonia.

4. *Central American element*. Species with distribution from S Mexico, Guatemala, Belize or Nicaragua to Panama or N South America (including the inter-Andean valleys of Cauca and Magdalena, the N part of Colombia, NW Venezuela and the Chocóan region of Colombia and Ecuador) but not present in Amazonia. This distribution is the result of the geological history of this region and their floristic affinities are more intensely related to Central America than with Amazonia (Croat & Busey, 1975; Gentry, 1986; Gentry, 1988).

5. "*Endemic*" *southern-Central American element*. Species found in the S part of Central America (Costa Rica and Panama) or Panama and N South America.

6. "*Endemic*" *Panamanian element*. This refers to the species with a more restricted distribution area: Panamanian endemic species.

In the Catalogue of Bahía Honda we have identified 14.4 % of the species (89) widely distributed over the tropical areas of the world (pantropical species). Of these, 7.6 % (47 species) were originally Neotropical species, which also colonized the Paleotropic region, so we consider them to belong to the "Neotropical element". 6.8 % (42 species) correspond to the "pantropical element".

Within the Neotropical element category, we observe that 59.4 % of the species (366) appear in the N of Central America and reach Amazonia, while 5.6 % (35 species) are distributed from Costa Rica or Panama to Amazonia (South American element).



22.5 % of the species (139) have a wide distribution in Central America (Central American element) whereas only 5.0 % (31 species) are endemic to the southern part of Central America and reach, in most cases, the Chocó. Three species are endemic to the Panamanian territory (0.4 %).

We can deduce from the analysis that 5.5 % (34) of the species considered are restricted to the S of Central America or Panama, while the rest (87.7 %) are species with a wide Neotropical distribution. The remaining 6.8 % are pantropical.

If we compare this flora to that of the island of Coiba, where we have identified 792 vascular plant species (Velayos & *al.*, 1997; Ibáñez, unpublished data), we can say that Bahía Honda shares 59.4 % (401) of its species with Coiba. On the contrary, Coiba shares 50.6 % of its species with Bahía Honda. As we can see there is a high number of species not shared between these two neighbouring areas. It gives us an indication of the "island effect" present on Coiba, the anthropogenic changes in the environment of Bahía Honda and the effect of diverse factors (environmental, geographic, historic, etc.) on both areas. These are a series of little understood factors which could be the object of future studies.

#### **4. Acknowledgements**

As is usually the case in this kind of study of a territory and the taxonomy of species, the authors arrive at results which could not have been achieved without the help of specialists in specific taxonomic groups, colleagues who were responsible for the determination of certain groups. It is unconceivable today to undertake a catalogue of the whole flora in a region, based simply on a study of the material by a few people. It is necessary to count on specialists in family or genera who can confirm our findings or clear up doubts. We cite the following researchers who helped with the determination of the groups mentioned (within parenthesis, the herbariums where they work): W.J. Kress (US) *Heliconia*; Ricardo Callejas (HUA) *Piperaceae*; J.G. Sánchez-Ken (ISC) *Poaceae*; Gloria Galeano (COL), *Arecaceae*; Robert L. Dressler (MO), *Orchidaceae*; Iván Valdespino (PMA), *Selaginella*; Favio González Garavito

(COL), *Aristolochia*; José María Cardiel (MA), *Acalypha*; Tom Daniel (CAS), *Ruellia*; Lilian Ferrufino (USJ) *Smilax*; Iván Gil (COL), *Moraceae, p.p.*; Clara Inés Orozco (COL), *Solanaceae, p.p.*; Julio Betancur (COL), *Heliconiaceae, p.p.*; María Teresa Murillo (COL), *Pteridophyta, p.p.*; C. Parra (COL) *Myrtaceae, p.p.*; Rodrigo Duno (MA) *Convolvulaceae, p.p.*; Carmen Galdames (SCZ), different groups; Alex Espinosa (CIFLORAN), different groups.

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In Madrid, our colleagues Leopoldo Medina and Manuel Pardo de Santayana helped us with the databases and the use of complex computer programs. Their expertise and experience helped us to reduce the time involved considerably.

We would like to acknowledge everyone's invaluable help and to express our gratitude to them.

## 5. FLORISTIC CATALOGUE

### A. FERNS (PTERIDOPHYTA)

#### ASPLENIACEAE

##### *Asplenium serratum* L.

**CN:** \_\_ **SY:** \_\_ **HA:** epiphyte. **HB:** humid places. **LO:** BH: Playa del Sol. **DP:** cc/ca/cn/pa/da/. **AL:** 0/1/2. **WD:** Mexico to Bolivia and Paraguay; also in the Caribbean. **US:** \_\_ **VS:** 1609 AI, 16494 SC. **Photo:** 1-2

##### *Asplenium* sp.1

**CN:** \_\_ **SY:** \_\_ **HA:** epiphyte. **HB:** open areas. **LO:** BH: Punta Gorda ridge. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 16520 SC. **Photo:** \_\_

##### *Asplenium* sp.2

**CN:** \_\_ **SY:** \_\_ **HA:** epiphyte. **HB:** scrub, humid places. **LO:** BH: Playa del Sol. Banks of Río Limón. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 1826 AI, 1952 AI. **Photo:** \_\_

#### BLECHNACEAE

##### *Blechnum occidentale* L.

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** scrub, open areas. **LO:** BH: surroundings of Playa Limón. Playa del Sol. From Playa del Sol to Lerencito. **DP:** ch/ca/pa/da/sa/. **AL:** 0. **WD:** S Mexico to Chile and the Antilles. **US:** \_\_ **VS:** 16250 SC, 1680 AI, 1944 AI. **Photo:** \_\_

#### CYATHEACEAE

##### *Cyathea multiflora* Sm.

**CN:** \_\_ **SY:** \_\_ **HA:** tree fern. **HB:** forest edge, coastal fringe. **LO:** ICT: around the Aquarium. N of the island. **DP:** ch/ca/vr/cc/. **AL:** 0/1. **WD:** Belize to Bolivia. **US:** \_\_ **VS:** 1561 AI, 16163 SC. **Photo:** 3-4-5-6-7-8

#### DAVALLIACEAE

##### *Nephrolepis biserrata* (Sw.) Schott

**CN:** \_\_ **SY:** *Aspidium biserratum* Sw. **HA:** epiphyte. **HB:** open areas. **LO:** BH: Lerencito. Bernabé Santos' house. **DP:** ch/ca/. **AL:** 0/1. **WD:** S Mexico to Bolivia and the Antilles; tropical Africa and Papua New Guinea. **US:** \_\_ **VS:** 1681 AI. **Photo:** 9-10

#### DENNSTAEDTIACEAE

##### *Pteridium arachnoideum* (Kaulf.) Maxon

**CN:** \_\_\_ **SY:** *Pteris arachnoidea* Kaulf. \_\_\_ **HA:** epiphyte. \_\_\_ **HB:** forest gaps and clearings.  
\_\_\_ **LO:** ICT: N of the island. \_\_\_ **DP:** pa/. \_\_\_ **AL:** 1/2. \_\_\_ **WD:** S Mexico to Paraguay. \_\_\_ **US:**  
\_\_\_ **VS:** 16180 SC. \_\_\_ **Photo:**

#### GLEICHENIACEAE

**Dicranopteris pectinata** (Willd.) Underw.

**CN:** \_\_\_ **SY:** *Mertensia pectinata* Willd.; *Gleichenia pectinata* (Willd.) C. Presl \_\_\_ **HA:**  
herb. \_\_\_ **HB:** scrub. \_\_\_ **LO:** BH: between Playa del Sol and Salmonete, Río Luis area.  
ICT: from Naranjo Amargo to Playa de los Luchos. \_\_\_ **DP:** cc/ca/pa/. \_\_\_ **AL:** 0/1. \_\_\_ **WD:**  
S Mexico to South America and Trinidad. \_\_\_ **US:** \_\_\_ **VS:** 1573 Al, 16334 SC. \_\_\_ **Photo:**  
11-12-13

#### HYMENOPHYLLACEAE

**Hymenophyllum polyanthos** (Sw.) Sw.

**CN:** \_\_\_ **SY:** *Trichomanes polyanthos* Sw.; *Hymenophyllum costaricanum* Bosch \_\_\_ **HA:**  
epiphyte. \_\_\_ **HB:** forests. \_\_\_ **LO:** BH: Punta Gorda ridge. \_\_\_ **DP:** bo/ch/pa/da/. \_\_\_ **AL:**  
0/1/2/3. \_\_\_ **WD:** Belize to Bolivia and Jamaica; Madagascar and SE continental Africa.  
\_\_\_ **US:** \_\_\_ **VS:** 16522 SC. \_\_\_ **Photo:**

**Trichomanes hymenophylloides** Bosch

**CN:** \_\_\_ **SY:** \_\_\_ **HA:** epiphyte. \_\_\_ **HB:** forests. \_\_\_ **LO:** BH: Río Seco headwaters. \_\_\_ **DP:**  
cc/ch/. \_\_\_ **AL:** 1. \_\_\_ **WD:** S Mexico to Peru and Venezuela; also in the Antilles. \_\_\_ **US:**  
\_\_\_ **VS:** 2095 Al. \_\_\_ **Photo:**

**Trichomanes pinnatum** Hedw.

**CN:** \_\_\_ **SY:** \_\_\_ **HA:** epiphyte. \_\_\_ **HB:** scrub. \_\_\_ **LO:** BH: path from Limón to the Magic  
Forest. ICT: N of the island. \_\_\_ **DP:** bo/he/ca/cn/pa/da/sa/. \_\_\_ **AL:** 0/1. \_\_\_ **WD:** S Mexico  
to Bolivia. \_\_\_ **US:** \_\_\_ **VS:** 16175 SC, 1979 Al. \_\_\_ **Photo:**

#### LOMARIOPSIDACEAE

**Elaphoglossum christianeae** Mickel

**CN:** \_\_\_ **SY:** \_\_\_ **HA:** epiphyte. \_\_\_ **HB:** forests. \_\_\_ **LO:** BH: Punta Gorda ridge. \_\_\_ **DP:**  
pa/ca/da/. \_\_\_ **AL:** 0. \_\_\_ **WD:** Belize to Panama. \_\_\_ **US:** \_\_\_ **VS:** 16505 SC. \_\_\_ **Photo:**

#### LYCOPODIACEAE

**Lycopodiella cernua** (L.) Pic. Serm.

**CN:** \_\_\_ **SY:** *Lycopodium cernuum* L. \_\_\_ **HA:** terrestrial herb. \_\_\_ **HB:** scrub. \_\_\_ **LO:** BH:  
Playa del Sol. ICT: close to JP's house. \_\_\_ **DP:** ch/vr/cc/ca/pa/da/sa/. \_\_\_ **AL:** 0/1/2.  
\_\_\_ **WD:** S Mexico to Paraguay; continental Africa and Madagascar. \_\_\_ **US:** \_\_\_ **VS:** 1370  
Al, 16141 SC. \_\_\_ **Photo:**

#### MARATTIACEAE

**Danaea nodosa** (L.) Sm.

**CN:** \_\_ **SY:** *Acrostichum nodosum* L. **HA:** herb. **HB:** mature forests. **LO:** BH: Río Seco headwaters. **DP:** bo/ch/cc/pa/ca/da/. **AL:** 0/1. **WD:** Belize to Paraguay and Trinidad. **US:** \_\_ **VS:** 2049 AI. **Photo:**

#### METAXYACEAE

**Metaxya rostrata** (Kunth) C. Presl

**CN:** \_\_ **SY:** *Aspidium rostratum* Kunth; *Alsophila rostrata* (Kunth) Mart. **HA:** herb. **HB:** forests. **LO:** ICT: path from Playa de los Luchos to the Lab. **DP:** ca/cn/pa/. **AL:** 0. **WD:** Belize to Bolivia and the Guianas. **US:** \_\_ **VS:** 1688 AI. **Photo:** 14-15

#### POLYPODIACEAE

**Campyloneurum phyllitidis** (L.) C. Presl

**CN:** \_\_ **SY:** *Polypodium phyllitidis* L. **HA:** epiphyte. **HB:** forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** ch/lo/cc/ca/pa/da/. **AL:** 0. **WD:** Nicaragua to Bolivia, Venezuela and the Caribbean. **US:** \_\_ **VS:** 16383 SC. **Photo:**

**Microgramma percussa** (Cav.) de la Sota

**CN:** \_\_ **SY:** *Pleopeltis percussa* (Cav.) Hook. & Grev.; *Polypodium percussum* Cav. **HA:** epiphyte. **HB:** forests. **LO:** ICT: forest N of the island. **DP:** bo/ch/lo/cc/ca/cn/pa/da/sa/. **AL:** 0. **WD:** S Mexico to Bolivia and the Guianas. **US:** \_\_ **VS:** 2001 AI. **Photo:**

**Pleopeltis astrolepis** (Liebm.) E. Fourn.

**CN:** \_\_ **SY:** *Polypodium astrolepis* Liebm. **HA:** epiphyte. **HB:** forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. El Edén Plot. **DP:** ch/cc/pa/. **AL:** 0/1. **WD:** S Mexico to Bolivia, Suriname and the Caribbean. **US:** \_\_ **VS:** 16321 SC, 2163 AI. **Photo:**

**Polypodium attenuatum** Humb. & Bonpl. ex Willd.

**CN:** *calahuala*. **SY:** *Polypodium kuhni* E. Fourn. **HA:** epiphyte. **HB:** coastal fringe. **LO:** BH: El Edén. ICT: N of the island. **DP:** ca/vr/pa/. **AL:** 0. **WD:** Nicaragua to Bolivia and Venezuela. **US:** \_\_ **VS:** 16021 SC, 16171 SC, 2142 AI. **Photo:**

**Polypodium polypodioides** (L.) Watt var. **polypodioides**

**CN:** \_\_ **SY:** *Acrostichum polypodioides* L. **HA:** epiphyte. **HB:** scrub. **LO:** BH: Jeringuita to Jeringón. ICT: top of the island. **DP:** vr/cc/ca/pa/. **AL:** 1/2. **WD:** Belize to Panama and Dominican Republic. **US:** \_\_ **VS:** 2010 AI, 16065 SC. **Photo:**

#### PTERIDACEAE

**Acrostichum aureum** L.

**CN:** *guágara de puerco, helecho de manglar, negra jorra, mangrove fern.* **SY:** **HA:** aquatic plant. **HB:** mangroves. **LO:** BH: Magic Forest. **DP:** ca/cn/pa/sa/vr/. **AL:** 0. **WD:** United States (Florida) to Peru and Venezuela; the Caribbean; Africa, Madagascar; Papua New Guinea. **US:** **VS:** not collected. **Photo:** 16-17

**Adiantum lunulatum** Burm. f.

**CN:** **SY:** *Adiantum lunulatum* Cav. **HA:** terrestrial herb. **HB:** forests. **LO:** BH: surroundings of Salmonete. **DP:** ca/cn/pa/da/. **AL:** 0. **WD:** S Mexico to Panama and Bolivia; Madagascar and Central Africa; India. **US:** **VS:** 16546 SC. **Photo:**

**Adiantum petiolatum** Desv.

**CN:** **SY:** *Adiantum kauffussii* Kunze; *Adiantum lucidum* var. *pinnatum* E. Fourn.; *Adiantum oblongatum* Schrad. **HA:** terrestrial herb. **HB:** forests. **LO:** BH: El Edén. **DP:** ca/cn/pa/sa/vr/. **AL:** 0. **WD:** S Mexico to Bolivia, Venezuela and Trinidad. **US:** **VS:** 1514 Al. **Photo:**

**Adiantum pulverulentum** L.

**CN:** **SY:** **HA:** terrestrial herb. **HB:** forests. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. **DP:** ch/ca/cn/pa/sa/da/. **AL:** 0/1. **WD:** S Mexico to Bolivia, Venezuela and the Caribbean. **US:** **VS:** 1628 Al. **Photo:** 18-19

PTERIDACEAE

**Adiantum seemannii** Hook.

**CN:** **SY:** **HA:** terrestrial herb. **HB:** waterfalls. **LO:** BH: Río Seco headwaters. **DP:** ca/vr/da/. **AL:** 0. **WD:** S Mexico to Panama. **US:** **VS:** 2057 Al. **Photo:**

**Adiantum tetraphyllum** Humb. & Bonpl. ex Willd.

**CN:** **SY:** **HA:** terrestrial herb. **HB:** forests. **LO:** BH: Punta Gorda ridge. Río Seco headwaters. **DP:** pa/da/sa/. **AL:** 0/1. **WD:** S Mexico to Paraguay, Venezuela and the Caribbean. **US:** **VS:** 16479 SC, 2066 Al. **Photo:**

**Pityrogramma calomelanos** (L.) Link

**CN:** **SY:** *Acrostichum calomelanos* L.; *Gymnogramma calomelanos* (L.) Kaulf. **HA:** terrestrial herb. **HB:** scrub. **LO:** BH: from Playa del Sol to Lerencito. **DP:** vr/ca/pa/. **AL:** 0/1. **WD:** Mexico to Bolivia and Venezuela; Dominican Republic; Africa and Madagascar; Vietnam and Papua New Guinea. **US:** **VS:** 1684 Al. **Photo:** 20-21

**Pteris altissima** Poir.

**CN:** **SY:** *Litobrochia altissima* (Poir.) Fée; *Pteris elata* J. Agardh; *Pteris kunzeana* J. Agardh; *Pteris protea* Liebm. **HA:** terrestrial herb. **HB:** forests. **LO:** BH: in the way to Río Seco headwaters. **DP:** bo/ch/cn/ca/pa/da/sa/. **AL:** 0/1. **WD:** Mexico to Bolivia, Venezuela and Puerto Rico. **US:** **VS:** 2100 Al. **Photo:**

**Pteris pungens** Willd.

**CN:** \_\_ **SY:** \_\_ **HA:** terrestrial herb. **HB:** forests. **LO:** BH: El Edén Plot. **DP:** he/cc/ca/pa/da/. **AL:** 0/1. **WD:** S Mexico to Bolivia and Venezuela. **US:** \_\_ **VS:** 2164 AI. **Photo:**

#### SCHIZAEACEAE

**Anemia oblongifolia** (Cav.) Sw.

**CN:** \_\_ **SY:** *Osmunda oblongifolia* Cav. **HA:** terrestrial herb. **HB:** forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** ch/he/ca/pa/vr/. **AL:** 0/1. **WD:** Mexico to Bolivia and Venezuela. **US:** \_\_ **VS:** 16354 SC. **Photo:**

**Anemia pastinacaria** Moritz ex Prantl

**CN:** \_\_ **SY:** \_\_ **HA:** terrestrial herb. **HB:** open areas. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** ch/cc/he/ca/pa/. **AL:** 0. **WD:** S Mexico to Bolivia, Venezuela and Trinidad. **US:** \_\_ **VS:** 16319 SC. **Photo:**

**Lygodium venustum** Sw.

**CN:** *bejuco de alambre, corrimiento, mazamorrillo.* **SY:** *Lygodium commutatum* C. Presl; *Lygodium mexicanum* C. Presl **HA:** vine. **HB:** scrub. **LO:** BH: Playa de Juana. ICT: N of the island. From Naranjo Amargo to Playa de los Luchos. Path from JP's house to Playa del Laboratorio. **DP:** ca/ch/cn/he/lo/pa/sa/. **AL:** 0. **WD:** Mexico to Paraguay, Brazil and the Guianas; also in the Antilles; Hong Kong and Sri Lanka. **US:** \_\_ **VS:** 1499 AI, 1563 AI, 16193 SC, 1845 AI. **Photo:** 22-23

**Schizaea elegans** (Vahl) Sm.

**CN:** \_\_ **SY:** *Acrostichum elegans* Vahl; *Lophidium elegans* (Vahl) C. Presl **HA:** terrestrial herb. **HB:** forest. **LO:** BH: from Playa Jeringuita to Playa Blanca. **DP:** ca/pa/. **AL:** 0/1. **WD:** Mexico to Bolivia, Venezuela and Trinidad. **US:** \_\_ **VS:** 1914 AI. **Photo:** 24-25 (AE)

#### SELAGINELLACEAE

**Selaginella flagellata** Spring

**CN:** \_\_ **SY:** *Selaginella othmeri* Hieron.; *Selaginella purdiei* Hieron.; *Selaginella regularis* Baker; *Selaginella reptans* Sodiro; *Selaginella rhizophora* Baker **HA:** terrestrial herb. **HB:** open areas. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. ICT: Playa de los Luchos. N of the island. **DP:** pa/ca/. **AL:** 0. **WD:** S Mexico to Bolivia and the Guianas. **US:** \_\_ **VS:** 1384 AI, 16198 SC, 16344 SC. **Photo:** 26

**Selaginella viticulosa** Klotzsch

**CN:** \_\_ **SY:** \_\_ **HA:** terrestrial herb. **HB:** open areas. **LO:** BH: Río Seco headwaters. Between Playa del Sol and Salmonete, Río Luis area. **DP:** bo/vr/. **AL:** 0. **WD:** Costa Rica, Panama and Venezuela. **US:** \_\_ **VS:** 16343 SC, 2092 AI. **Photo:**

#### THELYPTERIDACEAE

**Thelypteris minor** (C. Chr.) A.R. Sm.

**CN:** \_\_ **SY:** *Dryopteris nicaraguensis* var. *minor* C. Chr. \_\_ **HA:** terrestrial herb. \_\_ **HB:** forests, open areas. \_\_ **LO:** BH: surroundings of Playa Limón. Near Playa Blanca. ICT: between Naranjo Amargo and Playa de los Luchos. \_\_ **DP:** vr/. \_\_ **AL:** 0/1. \_\_ **WD:** S Mexico to Panama. \_\_ **US:** \_\_ **VS:** 1567 AI, 16258 SC, 1902 AI. \_\_ **Photo:** 27-28

## VITTARIACEAE

### **Vittaria costata** Kunze

**CN:** \_\_ **SY:** *Ananthacorus angustifolius* (Sw.) Underw. & Maxon; *Pteris angustifolia* Sw. \_\_ **HA:** epiphyte. \_\_ **HB:** forests, open areas. \_\_ **LO:** BH: from Jeringuita to Jeringón. ICT: forest N of the island. \_\_ **DP:** vr/ca/pa/da/. \_\_ **AL:** 0/1/2. \_\_ **WD:** S Mexico to Bolivia and Venezuela. \_\_ **US:** \_\_ **VS:** 1997 AI, 2022 AI. \_\_ **Photo:**

### **Vittaria lineata** (L.) Sm.

**CN:** \_\_ **SY:** *Pteris lineata* L.; *Vittaria costaricensis* Lellinger; *Vittaria deppeana* Müll. Berol. \_\_ **HA:** epiphyte. \_\_ **HB:** forests, open areas. \_\_ **LO:** BH: Playa del Sol. Río Limón. Between Playa del Sol and Salmonete, Río Luis area. \_\_ **DP:** ca/cn/pa/da/. \_\_ **AL:** 0/1/2/3. \_\_ **WD:** S Mexico to Paraguay and Venezuela. \_\_ **US:** decoction of fronds is used to cure headaches (Joly & al., 1987). \_\_ **VS:** 16148 SC, 16338 SC, 1978 AI. \_\_ **Photo:**

## B. ANGIOSPERMS

## ACANTHACEAE

### **Aphelandra scabra** (Vahl) Sm.

**CN:** *huesito* (BH), *chupa chupa*. \_\_ **SY:** *Justicia scabra* Vahl; *Aphelandra deppeana* Schldl. & Cham.; *Aphelandra pectinata* Willd. ex Nees; *Aphelandra haenkeana* Nees \_\_ **HA:** shrub. \_\_ **HB:** mature and secondary forests. \_\_ **LO:** BH: Punta Gorda ridge. ICT: Playa de los Luchos. \_\_ **DP:** ca/ch/cn/da/he/lo/pa/sa/vr/. \_\_ **AL:** 0. \_\_ **WD:** S Mexico to N South America. \_\_ **US:** \_\_ **VS:** 16460 SC, 1362 AI. \_\_ **Photo:** 1-2

### **Barleria oenotheroides** Dum. Cours.

**CN:** \_\_ **SY:** *Barleria micans* Nees; *Barleria discolor* Nees; *Barleriopsis glandulosa* var. *breviflora* Oerst. \_\_ **HA:** shrub. \_\_ **HB:** secondary forests, scrub. \_\_ **LO:** BH: from Playa Jeringuita to Playa Blanca. Between El Suto and Jeringón. ICT: Playa de los Luchos. \_\_ **DP:** ca/cc/ch/lo/pa/vr/. \_\_ **AL:** 0. \_\_ **WD:** C-W Mexico to Colombia; West Africa. \_\_ **US:** \_\_ **VS:** 1386 AI, 16444 SC, 1927 AI. \_\_ **Photo:** 3-4

### **Blechnum pyramidatum** (Lam.) Urb.

**CN:** *brinca-brinca*, *lombrizaria*, *mazorquilla*, *zornea* (G). \_\_ **SY:** *Barleria pyramidata* Lam.; *Blechnum brownei* Juss.; *Blechnum brownei* f. *puberulum* Leonard; *Ruellia blechnum* L. \_\_ **HA:** herb. \_\_ **HB:** open areas, scrub. \_\_ **LO:** BH: from Limón to El Edén. \_\_ **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/sa/. \_\_ **AL:** 0. \_\_ **WD:** C and W Mexico to South America; naturalized in the Old World tropics. \_\_ **US:** decoction of the whole plant is used to prevent vomiting (Joly & al., 1987). \_\_ **VS:** 1525 AI. \_\_ **Photo:** 5



**Elytraria imbricata** (Vahl) Pers.

**CN:** \_\_ **SY:** *Justicia imbricata* Vahl. **HA:** herb. **HB:** open areas. **LO:** BH: Managua Island. **DP:** ca/cc/ch/cn/he/lo/pa/. **AL:** 0/1. **WD:** SW United States to W South America; Old World tropics. **US:** \_\_ **VS:** 16242 SC. **Photo:**

**Hygrophila costata** Nees

**CN:** *flor de garza*. **SY:** *Hygrophila guianensis* Nees; *Hygrophila conferta* Nees **HA:** herb. **HB:** humid places. **LO:** BH: from Limón to El Edén. **DP:** bo/ca/cc/pa/vr/. **AL:** 0. **WD:** Mexico to Argentina. **US:** \_\_ **VS:** 1527 Al. **Photo:** 6

**Justicia isthmensis** J.F. Daniel

**CN:** *curia, tilo, clavel del río, lirio de río*. **SY:** *Chaetochlamys panamensis* Lindau; *Justicia panamensis* (Lindau) V.A.W. Graham **HA:** herb. **HB:** humid places. **LO:** BH: from Limón to El Edén. **DP:** ca/ch/cn/he/lo/pa/vr/. **AL:** 0. **WD:** Costa Rica to Panama. **US:** decoction of leaves is used against snake bite and rheumatism (Zapata, 1995). **VS:** 1526 Al. **Photo:** 7-8

**Lepidagathis alopecuroidea** (Vahl) R.Br. ex Griseb.

**CN:** \_\_ **SY:** *Ruellia alopecuroidea* Vahl; *Teliostachya alopecuroidea* (Vahl) Nees **HA:** herb. **HB:** open areas. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. **DP:** ca/cc/pa/vr/. **AL:** 0. **WD:** Central America, most of South America and the Antilles. **US:** \_\_ **VS:** 1632 Al. **Photo:** 9

**Mendoncia retusa** Turill

**CN:** \_\_ **SY:** \_\_ **HA:** vine. **HB:** scrub, secondary forests. **LO:** BH: from Limón to El Edén. **DP:** bo/ca/da/pa/. **AL:** 0. **WD:** Belize to Ecuador. **US:** \_\_ **VS:** 1524 Al. **Photo:** 10

**Nelsonia brunelloides** (Lam.) Kuntze

**CN:** \_\_ **SY:** *Justicia brunelloides* Lam. **HA:** herb. **HB:** open areas. **LO:** BH: Playa del Sol. **DP:** ca/cc/ch/da/lo/pa/. **AL:** 0. **WD:** Costa Rica to Panama. **US:** \_\_ **VS:** 1940 Al. **Photo:**

**Ruellia macrophylla** Vahl

**CN:** \_\_ **SY:** *Stemonacanthus macrophyllus* (Vahl) Nees **HA:** shrub. **HB:** humid places. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. **DP:** da/he. **AL:** 0. **WD:** Panama to Colombia and Venezuela. **US:** \_\_ **VS:** 1616 Al. **Photo:** 11-12

**Ruellia tubiflora** var. **tetrastichantha** (Lindau) Leonard

**CN:** \_\_ **SY:** *Ruellia tetrastichantha* Lindau **HA:** shrub. **HB:** humid places. **LO:** BH: banks of Río Limón. **DP:** bo/vr/cc/cn/da/sa/. **AL:** 0. **WD:** Nicaragua to Colombia. **US:** \_\_ **VS:** 1815 Al. **Photo:** 13 MAG

**Thunbergia fragrans** Roxb.

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** open areas. **LO:** BH: Playa del Sol. **DP:** bo/ca/he/lo/. **AL:** 0. **WD:** native to India, widely cultivated. **US:** \_\_ **VS:** 1943 AI. **Photo:** 14 AE

#### AMARANTHACEAE

##### *Alternanthera* sp.1

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** open areas. **LO:** BH: Río Limón. **DP:** . **AL:** . **WD:** . **US:** \_\_ **VS:** 1983 AI. **Photo:** :

##### *Amaranthus dubius* Mart. ex Thell.

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** scrub. **LO:** BH: Managua Island. **DP:** bo/ca/cn/da/he/pa/. **AL:** 0. **WD:** probably native to America; Mexico to Peru, Brazil and the Antilles. **US:** \_\_ **VS:** 16246 SC. **Photo:** :

##### *Chamissoa altissima* (Jacq.) Kunth

**CN:** *bejuco pedorro*. **SY:** *Achyranthes altissima* Jacq. **HA:** herb. **HB:** Open and humid areas. **LO:** BH: Río Limón. **DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/vr/. **AL:** 0. **WD:** Mexico to Peru, Paraguay, Argentina and the Antilles. **US:** in Guatemala the root is used as diuretic and sedative; in Venezuela as antivenereal (Gupta, 1995). **VS:** 1984 AI. **Photo:** :

##### *Cyathula achyranthoides* (Kunth) Moq.

**CN:** *mozote, cadillo, cola de armado*. **SY:** *Desmochaeta achyranthoides* Kunth **HA:** herb. **HB:** scrub. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/sa/. **AL:** 0. **WD:** native to tropical Africa and Madagascar; introduced and widely distributed from Mexico to Peru, Brazil and the Antilles. **US:** \_\_ **VS:** 1603 AI. **Photo:** :

##### *Cyathula prostrata* (L.) Blume

**CN:** *cadillo*. **SY:** *Achyranthes prostrata* L. **HA:** herb. **HB:** scrub. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. **DP:** bo/ca/cc/ch/cn/da/pa/vr/. **AL:** 0. **WD:** native to the Old World tropics, introduced from Central America to Peru and Brazil. **US:** \_\_ **VS:** 1604 AI. **Photo:** 15

##### *Iresine diffusa* Humb. & Bonpl. ex Willd.

**CN:** *adorno de niño, coyuntura, coyuntura de pollo, hierba de gato, pie de paloma, sanguinaria, camarón, velo de novia*. **SY:** *Iresine celosia* L. **HA:** herb. **HB:** humid places. **LO:** BH: Playa del sol, path to the waterworks. From "Cativo Forest" near Río Luis to Playa del Sol. **DP:** bo/ca/cc/ch/da/lo/pa/vr/. **AL:** 0/1/2/3. **WD:** SE United States to Peru, Brazil and the Antilles. **US:** to purify the blood and to treat poor circulation (Zapata, 1995). **VS:** 1587 AI, 1777 AI. **Photo:** 16

#### AMARYLLIDACEAE

##### *Hymenocallis littoralis* (Jacq.) Salisb.

**CN:** *lirio, lirio araña, spider lily*. **SY:** *Pancratium littorale* Jacq.; *Pancratium americanum* Mill.; *Hymenocallis panamensis* Lindl. **HA:** herb. **HB:** humid places.

\_\_LO: BH: surroundings of Salmonete. \_\_DP: bo/pa/. \_\_AL: 0. \_\_WD: Mexico to South America; widely cultivated and naturalized in Africa. \_\_US: the bulb is used to cause vomiting and to eliminate intestinal worms (Ocampo & al., 1997). \_\_VS: 16564 SC.

\_\_Photo:

## ANACARDIACEAE

### **Anacardium excelsum** (Bertero & Balb. ex Kunth) Skeels

**CN:** *espavé (BH)*, *espavel*, *wild cashew*. \_\_SY: *Rhinocarpus excelsa* Bertero & Balb. ex Kunth; *Anacardium rhinocarpus* DC. \_\_HA: tree to 30 m. \_\_HB: secondary or mature forests, usually in areas with a high watertable, also very common on river banks. \_\_LO: BH: El Edén Plot. Playa Limón area. Playa de Juana. ICT: Plot 1. N of the island. \_\_DP: bo/ca/cc/ch/da/he/lo/pa/vr/. \_\_AL: 0. \_\_WD: Honduras to Colombia, Ecuador and N Venezuela. \_\_US: wood used to make basins, canoes, troughs, animal figures, tools for domestic use and cabinet making. Also used as firewood (Santana, 1998). Fruits are edible and are used as bait when fishing (Montenegro, 1996). The macerated bark is used as a fish poison in Panama (Zamora, 1993). \_\_VS: 16231 SC, 16289 SC, 1725 AI, 1830 AI, 2249 AI. \_\_Photo: 17-18

### **Anacardium occidentale** L.

**CN:** *marañón (BH)*, *cashew*. \_\_SY: \_\_HA: tree to 8 m. \_\_HB: cultivated and naturalized in open areas and scrub. \_\_LO: BH: track to Salmonete. \_\_DP: ca/cc/ch/cn/da/he/lo/pa/vr/. \_\_AL: 0. \_\_WD: probably native from N South America to SE Brazil; cultivated and introduced in the tropics. \_\_US: used to treat hypertension, diarrhoea, throat problems, limb inflammation and also as a diuretic. A tea from the inner bark is used against diabetes. The "apple" or swollen pedicel is used to prepare cakes and jams (Gupta, 1995). Fruits are edible and used for making preserves and ice creams. The nut has a high nutritive and commercial value. It contains an irritant and caustic oil for the skin. The bark exudates a gum (resin) used as Arabic gum. The timber is quite hard and strong, though not durable. Tree plantations must be protected from strong winds as the branches break easily (Zamora, 1993). \_\_VS: not collected.

\_\_Photo: 19-20 SC

### **Astronium graveolens** Jacq.

**CN:** *zorro (BH)*. \_\_SY: \_\_HA: tree to 30 m. \_\_HB: open areas, mature forests. \_\_LO: ICT: N of the island. In Plot 1. \_\_DP: bo/ca/cc/ch/da/he/lo/pa/vr/. \_\_AL: 0/1. \_\_WD: Mexico to E Brazil and Paraguay. \_\_US: the wood is high quality and widely used for flooring, furniture, cabinets, handles of tools, paper pulp, and interior or exterior carpentry (Montenegro, 1996; Pérez & Condit, 2002). \_\_VS: 16216 SC, 1762 AI.

\_\_Photo:

### **Mangifera indica** L.

**CN:** *mango (BH)*. \_\_SY: \_\_HA: tree to 20 m. \_\_HB: cultivated or spontaneous. \_\_LO: ICT: Playa de los Luchos. \_\_DP: bo/ca/cc/cn/ch/da/he/lo/pa/sa/. \_\_AL: 0. \_\_WD: native to tropical Asia; cultivated in all tropics and subtropics. \_\_US: used to make handicrafts and as firewood. Its fruits are edible (Santana, 1998). To treat rheumatism, mouth and gum disorders, respiratory problems and as a laxative (D'Arcy & Correa, 1985). The savia from the green fruits is used to treat warts (Zamora, 1993). This species has been widely cultivated due to the high nutritious value of its fruits. Several varieties with different fruit qualities such as size or taste, are grown. The pulp of the mature fruits is edible and used to prepare jams, preserves and juices. Green fruits have a very irritant

resinous oil when in contact with the skin. The wood is strong and heavy. In many places of the country's interior, pieces of the wood are used as butcher's blocks. Leaves and flowers are used, same as the resin, in traditional medicine. The tree is also grown for shade and apiculture (Pérez & Condit, 2002).

\_\_VS: 1692 AI. \_\_Photo: 21-22

#### **Spondias mombin L.**

**CN:** *jobo (BH)*. \_\_SY: *Spondias lutea* L. \_\_HA: tree to 35 m. \_\_HB: open areas, secondary forests. \_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. ICT: between Playa Naranjo and the most the most NW point of the island of the island. \_\_DP: bo/ca/cc/ch/cn/da/pa/sa/. \_\_AL: 0. \_\_WD: Mexico to SE Brazil; cultivated or introduced in West Africa and SE Asia. \_\_US: used to make handicrafts and for living fences. Fruits used to make soft drinks (Santana, 1998). Treatment for respiratory problems (D'Arcy & Correa, 1985). The wood is low-quality and used to make boxes, plywood and pulp for paper. In the provinces of Herrera and Los Santos, the corky and hard bark is used for carving religious figures, small ships and different ornaments. Jobo is commonly used for living fences in farmland of Panama, since cut branches readily root. The fruits are edible and leaves and roots are occasionally used as medicine (healing of wounds and to treat fevers and colds). This plant has a great potential apiculture (Pérez & Condit, 2002). \_\_VS: 16079 SC, 16361 SC. \_\_Photo: 23

#### **Spondias purpurea L.**

**CN:** *ciruelo (BH)*, *ciruela*, *jocote*, *wild plum*. \_\_SY: *Spondias cirouella* Tussac; *Spondias myrobalanus* L.; *Warmingia pauciflora* Engl. \_\_HA: tree to 15 m. \_\_HB: Open and cultivated areas, beaches. \_\_LO: BH: Playa Limón area. \_\_DP: bo/ca/cc/ch/da/lo/pa/. \_\_AL: 0/1. \_\_WD: probably native from Mexico to SW Ecuador; cultivated and introduced in all tropical America, parts of Africa and SE Asia. \_\_US: fruits are edible and the tree is widely used as a living fence (Holdridge & al., 1997). \_\_VS: 16252 SC, 1816 AI. \_\_Photo:

### **ANNONACEAE**

#### **Annona muricata L.**

**CN:** *guanábana (BH)*. \_\_SY: \_\_HA: tree to 8 m. \_\_HB: cultivated. \_\_LO: BH: Playa del Sol. \_\_DP: ca/sa/vr/. \_\_AL: 0/1. \_\_WD: unknown as a wild plant though widely cultivated. \_\_US: fruits are edible and commonly used to prepare drinks, ice creams and preserves (Little & Wadsworth, 1964). Used to treat stomach ulcers, indigestion, intestinal worms and diarrhoea (Gupta, 1995). Decoction of leaves used to kill lice and against intestinal parasites (Zamora, 1993). \_\_VS: 1787 AI. \_\_Photo:

#### **Annona purpurea** Moc. & Sessé ex Dunal

**CN:** *toreta (BH)*, *guanábana toreta*, *toreto*. \_\_SY: *Annona manirote* Kunth; *Annona involucreta* Baill.; *Annona prestoei* Hemsl. \_\_HA: tree to 20 m. \_\_HB: native or naturalized in pastures and beaches. \_\_LO: BH: Cativito. \_\_DP: ca/ch/da/lo/vr/. \_\_AL: 0. \_\_WD: Mexico to Venezuela. \_\_US: fruits are edible (Montenegro, 1996). Timber used in construction, agriculture implements, boxes, fence posts and for paper pulp production (Pérez & Condit, 2002). \_\_VS: 2129 AI. \_\_Photo:

#### **Duguetia panamensis** Standl.

**CN:** \_\_ **SY:** \_\_ **HA:** tree to 12 m. **HB:** mature forests. **LO:** BH: Río Seco headwaters. **DP:** bo/pa/. **AL:** 0. **WD:** Nicaragua to Panama. **US:** \_\_ **VS:** 2069 Al. **Photo:**

**Guatteria recurvisepala** R.E. Fr.

**CN:** *torete* (BH). **SY:** \_\_ **HA:** tree to 25 m. **HB:** secondary forests, scrub. **LO:** ICT: path between Playa de los Luchos and N of the island. Between Playa Naranja and the most the most NW point of the island of the island. **DP:** cn/he/pa/vr/. **AL:** 0. **WD:** Nicaragua to Panama. **US:** \_\_ **VS:** 1429 Al, 16128 SC. **Photo:** 24-25

**Oxandra longipetala** R.E. Fr.

**CN:** \_\_ **SY:** \_\_ **HA:** shrub or tree to 4 m. **HB:** mature forests. **LO:** BH: Río Seco headwaters. **DP:** da/. **AL:** 0. **WD:** Nicaragua to Panama. **US:** \_\_ **VS:** 2041 Al. **Photo:**

**Oxandra venezuelana** R.E. Fr.

**CN:** *yaya* (BH). **SY:** \_\_ **HA:** tree to 20 m. **HB:** secondary and mature forests. **LO:** BH: forest in Playa de Juana. Punta Gorda ridge. El Edén Plot. Playa Caoba. **DP:** vr/. **AL:** 0. **WD:** Mexico, Nicaragua to Panama and Venezuela. **US:** \_\_ **VS:** 16490 SC, 1836 Al, 1910 Al, 2181 Al. **Photo:**

**Rollinia mucosa** (Jacq.) Baill.

**CN:** *toreto* (BH), *anona*, *anona de monte*, *anón cimarrón*. **SY:** *Annona mucosa* Jacq.; *Rollinia jimenezii* Saff.; *Rollinia permensis* Standl. **HA:** tree to 15 m. **HB:** secondary and mature forests. **LO:** BH: El Edén Plot. Between Playa del Sol and Salmonete, Río Luis area. **DP:** ca/ch/cn/da/sa/vr/. **AL:** 0/1. **WD:** Mexico to Peru. **US:** fruits are edible (Little & al., 1974). **VS:** 16386 SC, 2178 Al, 2237 Al. **Photo:**

**Xylopia frutescens** Aubl.

**CN:** *malagueto* (BH), *malagueto hembra*. **SY:** \_\_ **HA:** tree to 12 m. **HB:** scrub, secondary forests. **LO:** BH: El Edén Plot. ICT: path from Playa de los Luchos to N of the island. N of the island. **DP:** ca/cc/da/pa/. **AL:** 0. **WD:** Mexico to Brazil. **US:** dried fruits of *malagueto* are usually cooked in "chicha", a corn fermented drink, to get a hot flavour (Montenegro, 1996). Used to treat intestinal worms, abdominal and period pains and cooling for feverish conditions (Joly & al., 1987; Hazlett, 1986). The wood is used for fences and firewood. Fiber from the bark is used as string. Seeds are poisonous and used to kill mice when mixed with corn grains (Pérez & Condit, 2002). Fruit used to treat stomach pains (BH). **VS:** 1375 Al, 16169 SC, 2205 Al. **Photo:** 26-27

APOCYNACEAE

**Lacmellea panamensis** (Woodson) Markgr.

**CN:** *alcabú* (BH), *palo perezozo*, *molinunissapi* (K). **SY:** *Zschokkea panamensis* Woodson **HA:** tree to 20 m. **HB:** mature and secondary forests. **LO:** BH: Punta Gorda ridge. In the way to Río Seco headwaters. El Edén Plot. **DP:** ca/cn/da/pa/. **AL:** 0. **WD:** Belize to Panama. **US:** used to treat vaginal thrush, to live a longer life and to increase milk flow when breastfeeding (Paredes & Herrera, 1997). The wood

is fine quality and used to make tool handles, boxes, boards and plywood. Mature fruits are edible (Pérez & Condit, 2000). Latex is used to treat toothache (BH). \_\_VS: 2098 AI, 2184 AI, 16495b SC. \_\_Photo: 28

**Mandevilla hirsuta** (Rich.) K. Schum.

CN: \_\_SY: *Echites hirsuta* Rich. \_\_HA: vine. \_\_HB: scrub. \_\_LO: ICT: between Playa Naranjo and the most the most NW point of the island of the island. Path from Playa de los Luchos to N of the island. N of the island. \_\_DP: ca/cc/ch/cn/da/he/lo/pa/sa/vr/. \_\_AL: 0. \_\_WD: Guatemala to Brazil and Bolivia. \_\_US: \_\_VS: 1404 AI, 16109 SC, 16186 SC. \_\_Photo: 29

**Mesechites trifida** (Jacq.) Müll. Arg.

CN: \_\_SY: *Echites trifida* Jacq. \_\_HA: vine. \_\_HB: scrub. \_\_LO: ICT: path from Playa de los Luchos to N of the island. \_\_DP: bo/ca/cc/ch/da/pa/sa/vr/. \_\_AL: 0. \_\_WD: Mexico to Peruvian Amazon. \_\_US: \_\_VS: 1430 AI. \_\_Photo: 30

**Odontadenia puncticulosa** (Rich.) Pulle

CN: \_\_SY: *Echites puncticulosa* Rich. \_\_HA: vine. \_\_HB: forests. \_\_LO: ICT: N of the island. \_\_DP: ca/cn/da/pa/vr/. \_\_AL: 0. \_\_WD: Guatemala and Belize to Brazil. \_\_US: \_\_VS: 16203 SC. \_\_Photo:

**Peltastes colombianus** Woodson

CN: *sin arremate* (BH). \_\_SY: *Peltastes isthmicus* Woodson \_\_HA: vine. \_\_HB: mature and secondary forests. \_\_LO: ICT: path on the W side of the island. Between Playa Naranjo and the most the most NW point of the island of the island. \_\_DP: ca/ch/da/pa/. \_\_AL: 0. \_\_WD: Costa Rica to Colombia. \_\_US: used to treat diarrhoea (Joly & al., 1990). In the bath it calms muscular pains (BH). \_\_VS: 1374 AI, 16089 SC. \_\_Photo: 31-32

**Plumeria rubra** L.

CN: *caracucho* (BH), *caracucha*, *frangipani*. \_\_SY: *Plumeria acutifolia* Poir. \_\_HA: tree to 15 m. \_\_HB: coastal forest. \_\_LO: BH: Playa Caoba. \_\_DP: bo/ca/da/he/lo/pa/sa/. \_\_AL: 1. \_\_WD: Mexico to Panama and N Venezuela; also in the Antilles. \_\_US: ornamental. It contains a poisonous latex. Flowers are used for medicine (Little & Wadsworth, 1964). \_\_VS: 1932 AI, 1668 AI, 1775 AI. \_\_Photo: 33-34 (AE) 35-36

**Prestonia quinquadrangularis** (Jacq.) Spreng.

CN: \_\_SY: *Prestonia acutifolia* (Benth. ex Müll. Arg.) K. Schum. \_\_HA: vine. \_\_HB: scrub. \_\_LO: BH: from Playa del Sol to El Edén. \_\_DP: ca/cc/da/pa/. \_\_AL: 0. \_\_WD: Costa Rica to Argentina. \_\_US: \_\_VS: 1668 AI, 1775 AI. \_\_Photo: 37

**Rhabdadenia biflora** (Jacq.) Müll. Arg.

CN: *clavelito*, *clavelito de manglar*, *allisir e'guar* (K). \_\_SY: *Echites biflora* Jacq. \_\_HA: shrub. \_\_HB: mangrove edge. \_\_LO: BH: El Edén. \_\_DP: bo/ca/ch/cn/da/pa/sa/. \_\_AL: 0. \_\_WD: Mexico to the Guianas and N coast of Brazil; also in the Antilles. \_\_US: eye problems (Gupta & al., 1993). \_\_VS: 1462 AI, 2141 AI. \_\_Photo: 38

**Stemmadenia grandiflora** (Jacq.) Miers

**CN:** *cojón de gato, cojón de mico, huevo de gato, venenillo, lechuga, horquetilla (G).*  
**SY:** *Tabernaemontana grandiflora* Jacq. **HA:** tree to 8 m. **HB:** secondary forests and rocky coastal border. **LO:** ICT: Playa de los Luchos. N of the island. Track from Playa del Laboratorio to the Lab. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/sa/. **AL:** 0.  
**WD:** Panama to Colombia and Venezuela. **US:** treatment of kidney disorders (Joly & al., 1990). Sometimes planted as an ornamental. Some other species in this genus contain alkaloids (Pérez & Condit, 2002). **VS:** 1382 AI, 16028 SC, 16167 SC, 1690 AI. **Photo:** 39-40-41

**Tabernaemontana arborea** Rose

**CN:** *chicheme (BH), huevo de toro, huevo de gato, wild orange.* **SY:** *Peschiera arborea* (Rose) Markgr. **HA:** tree to 25 m. **HB:** mature forests. **LO:** BH: El Edén Plot. **DP:** bo/ca/da/pa/sa/. **AL:** 0. **WD:** Mexico to N Colombia. **US:** this species sprouts easily when cut, and is occasionally used in living fences. It has a great potential to be used for apiculture (Pérez & Condit, 2002). **VS:** 2197 AI, 2198 AI, 2201 AI, 2208 AI, 2241 AI. **Photo:**

**Thevetia ahouai** (L.) A. DC.

**CN:** *huevo de mono (BH), cojón de gato, huevo de tigre, huevo de gato, lavaperro.*  
**SY:** *Cerbera ahouai* L. **HA:** shrub. **HB:** scrub. **LO:** BH: Playa del Sol. ICT: Top of the island. **DP:** bo/ca/ch/cn/da/he/lo/pa/sa/vr/. **AL:** 0. **WD:** Mexico to South America. **US:** used as an anti-haemorrhagic and to treat skin ulcers and athlete's foot (D'Arcy & Correa, 1985). **VS:** 16020 SC, 16069 SC. **Photo:** 42-43

ARACEAE

**Anthurium clavigerum** Poepp.

**CN:** *bejuco ariel.* **SY:** *Anthurium holtonianum* Schott **HA:** epiphyte. **HB:** in "sangrillal" (*Pterocarpus officinalis* forest). **LO:** BH: from Limón to El Edén. Punta Gorda ridge. **DP:** bo/ca/cc/ch/cn/da/pa/sa/. **AL:** 0. **WD:** Nicaragua to Guianas, Brazil and Bolivia. **US:** used to make baskets and ropes (Santana, 1998). **VS:** 1554 AI, 16521 SC. **Photo:** 51-52

**Dieffenbachia sp.1**

**CN:** *otoe lagarto (BH).* **SY:** **HA:** terrestrial herb. **HB:** very humid areas. **LO:** ICT: between Playa Naranjo and the most the most NW point of the island of the island. **DP:** **AL:** **WD:** **US:** **VS:** 16139 SC. **Photo:**

**Monstera adansonii** var. *laniata* (Schott) Madison

**CN:** *hierba de puerco.* **SY:** *Tornelia laniata* Schott. **HA:** epiphyte. **HB:** humid forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** ca/vr. **AL:** 0. **WD:** Honduras to Colombia, Venezuela and the Guianas. **US:** **VS:** 16336 SC. **Photo:**

**Monstera dissecta** (Schott) Croat & Grayum

**CN:** **SY:** *Tornelia dissecta* Schott; *Monstera dissecta* (Schott) Croat & Grayum  
**HA:** epiphyte. **HB:** humid forests. **LO:** ICT: between Playa Naranjo and the

most NW point of the island. **DP:** pa/sa/. **AL:** 0. **WD:** Belize and Guatemala to Panama. **US:** **VS:** 16120 SC. **Photo:**

**Philodendron sagittifolium** Liebm.

**CN:** **SY:** **HA:** epiphyte. **HB:** forest edge, coastal fringe. **LO:** BH: Playa de Lerencito. ICT: forest edge, beaches. **DP:** bo/ch/vr/lo/he/cc/ca/cn/pa/sa/da/. **AL:** 0/1. **WD:** Mexico to N Colombia. **US:** **VS:** 1463 AI, 16023 SC. **Photo:** 57-58-59-60

**Syngonium** sp.

**CN:** **SY:** **HA:** epiphyte. **HB:** humid places. **LO:** BH: Río Seco headwaters. ICT: between Playa Naranjo and the most NW point of the island. Track from Naranjo Amargo to Playa de los Luchos. **DP:** **AL:** **WD:** **US:** **VS:** 1564 AI, 16130 SC, 2058 AI. **Photo:** 61

**Xanthosoma mexicanum** Liebm.

**CN:** **SY:** **HA:** terrestrial herb. **HB:** scrub, humid areas. **LO:** BH: surroundings of Salmonete. **DP:** ca/pa/. **AL:** 0. **WD:** Mexico to Colombia. **US:** **VS:** 16555 SC. **Photo:**

ARALIACEAE

**Dendropanax arboreus** (L.) Decne. & Planch.

**CN:** *jamaico* (BH), *vaquero*, *paloma*, *nagua blanca*. **SY:** *Aralia arborea* L.; *Gilibertia rothschuhii* Harms; *Dendropanax concinnus* (Standl.) Lundell; *Dendropanax stenodontus* (Standl.) A.C. Sm. **HA:** tree to 30 m. **HB:** mature and secondary forests. **LO:** BH: El Edén Plot. ICT: Plot 1. The Aquarium. From Naranjo Amargo to Playa de los Luchos. N of the island. Top of the island. **DP:** bo/ca/cc/ch/da/he/lo/pa/vr/. **AL:** 0/1. **WD:** Mexico to tropical South America and the Antilles. **US:** the wood is used for firewood, constructions, carpentry and recently for tooth sticks and paper pulp (Vozzo, 2002). A preparation from the roots and leaves is used to cool fever. The flowers are visited by bees, so this tree can be used in apiculture to produce honey (Pérez & Condit, 2000). **VS:** 16062 SC, 16156 SC, 2147 AI, 2195 AI, 1557 AI, 1565 AI, 1727 AI. **Photo:** 62

**Schefflera morototoni** (Aubl.) Maguire, Steyerl. & Frodin

**CN:** *pavano* (BH), *guarumo pava* (BH), *mangabé*, *pava*, *guarumo de pava*, *guarumo macho*, *gargarán*. **SY:** *Didymopanax morototoni* (Aubl.) Decne. & Planch. **HA:** tree to 30 m. **HB:** secondary forests and scrub, also in forest patches recovered from large gaps. **LO:** BH: El Edén Plot. ICT: path from Playa de los Luchos to N of the island. North of the island. **DP:** ca/cn/da/pa/sa/vr/. **AL:** 0. **WD:** Mexico to South America and the Antilles. **US:** timber used in carpentry, interiors, boxes, paper pulp, toys and plywood (Little & Wadsworth, 1964). The wood is smooth and light, used to build boxes, matches, pencils, tooth sticks and rafts, due to its floating properties. It has a great potential for apiculture (Pérez & Condit, 2002). The leaf petioles are used for building bird cages (BH). **VS:** 1456 AI, 2192 AI, 16164 SC. **Photo:** 63-64

ARECACEAE



**Acrocomia aculeata** (Jacq.) Lodd. ex Mart.

**CN:** *palma pacora* (BH), *corozo de pacora*, *coyol*, *pacora*, *palma de vino*. **SY:** *Cocos aculeatus* Jacq.; *Acrocomia panamensis* Bailey **HA:** palm. **HB:** cultivated. **LO:** BH: Playa del Sol. **DP:** ca/ch/he/pa/vr/. **AL:** 0. **WD:** Belize to Paraguay. **US:** oil is extracted from its fruits; the palm is also used to produce palm wine (Henderson & al., 1995). **VS:** 2109 AI. **Photo:** 67

**Astrocaryum standleyanum** L.H. Bailey

**CN:** *chonta* (BH), *chunga* (BH). **SY:** *Astrocaryum trachycarpum* Burret **HA:** palm. **HB:** mature and secondary forests. **LO:** ICT: between Playa Naranjo and the most NW point of the island. **DP:** ca/da/pa/sa/vr. **AL:** 0. **WD:** Panama to Colombia and Ecuador. **US:** the fiber from young leaves is used to weave hats and bags (Santana, 1998). The trunks are used in house building (Henderson & al., 1995). **VS:** 16114 SC. **Photo:** 68-69-70

**Bactris major** Jacq. var. **major**

**CN:** *caña brava* (BH), *palma brava*, *palma brava morada*. **SY:** *Bactris superior* L.H. Bailey; *Bactris balanoidea* (Oerst.) H. Wendl.; *Bactris augustinea* L.H. Bailey **HA:** palm. **HB:** coastal fringe, humid places. **LO:** BH: Playa del Sol. **DP:** ch/cc/ca/da/lo/pa/. **AL:** 0. **WD:** Mexico to N South America and Trinidad. **US:** fruits are edible and often used to prepare drinks (Henderson & al., 1995). **VS:** 1963 AI. **Photo:** 71-72-73 (AE) 74-75-76

**Cocos nucifera** L.

**CN:** *coco* (BH). **SY:** **HA:** palm. **HB:** beaches. **LO:** BH: Playa del Sol. ICT: Playa de los Luchos. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/sa/. **AL:** 0. **WD:** unknown origin, probably from western Pacific; cultivated and naturalized in the tropics and subtropics. **US:** oil is extracted from the kernel (solid and dry endosperm). Water from the fruit is drunk. The fibers are used for fillings. The endocarp is used as a pot and cakes can be made with the endosperm (Henderson & al., 1995). **VS:** not collected. **Photo:** 77-78

**Desmoncus orthacanthos** Mart.

**CN:** *matamba* (BH), *palma bejuco*. **SY:** *Desmoncus isthmus* Bailey; *Atitara costaricensis* Kuntze; *Desmoncus costaricensis* (Kuntze) Burret; *Desmoncus leptochaeta* Burret; *Desmoncus schippii* Burret **HA:** palm-liana. **HB:** secondary forests. **LO:** ICT: between Playa Naranjo and the most NW point of the island. Forest N of the island. **DP:** ca/ch/cn/da/pa/. **AL:** 0. **WD:** S Mexico to N South America and Coastal Brazil. **US:** used to make baskets, furniture, hats and bottle caps (Santana, 1998). Indigenous people used it to tie animals (BH). **VS:** 1457 AI, 16104 SC. **Photo:** 79-80

**Elaeis oleifera** (Kunth) Cortés

**CN:** *corocita* (BH), *palma aceitera*, *corocito*, *corocito colorado*, *oil palm*. **SY:** *Alfonsia oleifera* Kunth; *Corozo oleifera* (Kunth) L.H. Bailey; *Elaeis melanococca* var. *semicircularis* Oerst. **HA:** palm. **HB:** cultivated, humid places. **LO:** ICT: N of the island. **DP:** ca/ch/cn/da/. **AL:** 0. **WD:** Honduras to N Colombia and Brazilian Amazon. **US:** the fruits are used for extracting oil and preparing drinks (Henderson & al., 1995). The leaves are used for thatching. The fruits are eaten by pigs. Three distinct oils to treat different illnesses are derived from the fruits. White oil used for "skin

burning”, black oil for headaches and red oil to treat fungal infections (BH). \_\_VS:  
16155 SC. \_\_Photo: 81-82

**Geonoma deversa** (Poit.) Kunth

CN: \_\_SY: *Gynestum deversum* Poit. \_\_HA: palm. \_\_HB: mature and secondary  
forests. \_\_LO: BH: forest in Playa de Juana. Between El Suto and Jeringón. Punta  
Gorda ridge. In the way to Río Seco headwaters. \_\_DP: bo/cc/cn/da/pa/. \_\_AL: 0.  
\_\_WD: Central America to Bolivia and Amazonia. \_\_US: \_\_VS: 16415 SC, 16499 SC,  
16500 SC, 1840 AI, 2105 AI. \_\_Photo:

**Geonoma interrupta** (Ruiz & Pav.) Mart.

CN: *súrtuba*. \_\_SY: *Martinezia interrupta* Ruiz & Pav.; *Geonoma oxycarpa* Mart. \_\_HA:  
palm. \_\_HB: mature forests. \_\_LO: BH: in the way to Río Seco headwaters. ICT:  
between Playa Naranjo and the most NW point of the island. Forest N of the island.  
\_\_DP: cc/ca/pa/sa/. \_\_AL: 0/1. \_\_WD: Mexico to Peru. \_\_US: \_\_VS: 1458 AI, 16087  
SC, 2107 AI. \_\_Photo: 83-84

**Geonoma sp.1**

CN: \_\_SY: \_\_HA: palm. \_\_HB: mature forests. \_\_LO: BH: towards Río Seco  
headwaters. Surroundings of Playa Limón. \_\_DP: \_\_AL: \_\_WD: \_\_US: \_\_VS: 16285  
SC, 2106 AI. \_\_Photo:

**Oenocarpus minor** Mart.

CN: *maquenque* (BH), *siler* (K). \_\_SY: *Oenocarpus mapora* H. Karst. \_\_HA: palm.  
\_\_HB: mature and secondary forests. \_\_LO: BH: between El Suto and Jeringón. \_\_DP:  
ca/da/pa/sa/. \_\_AL: 0. \_\_WD: Costa Rica to Bolivia. \_\_US: stimulating, protective  
(Paredes & Herrera, 1997). \_\_VS: 16418 SC. \_\_Photo: 85-86

ARISTOLOCHIACEAE

**Aristolochia pilosa** Kunth

CN: \_\_SY: *Aristolochia costaricensis* (Klotzsch) Duch. \_\_HA: vine. \_\_HB: scrub. \_\_LO:  
BH: between Playa del Sol and Salmonete, Río Luis area. \_\_DP: bo/ca/cn/da/pa/.  
\_\_AL: 0. \_\_WD: Mexico to South America. \_\_US: Bri-bri indians use it as medicine and  
in ceremonies (Ocampo & al., 1997). \_\_VS: 16380 SC. \_\_Photo:

ASCLEPIADACEAE

**Asclepias curassavica** L.

CN: *niño muerto*, *mal casada*, *pasorín*. \_\_SY: \_\_HA: shrub. \_\_HB: scrub, Open areas.  
\_\_LO: BH: surroundings of Salmonete. \_\_DP: bo/ca/cc/ch/cn/da/he/lo/pa/ sa. \_\_AL:  
0/1. \_\_WD: native to the American tropics and subtropics; introduced and naturalized in  
the Old World. \_\_US: used to treat intestinal worms and bile flow disorders (Correa &  
Bernal, 1989; Zapata, 1995). \_\_VS: 16566 SC. \_\_Photo:

**Blepharodon mucronatum** (Schltdl.) Decne.

CN: *chununa de caballo*. \_\_SY: *Astephanus mucronatus* Schltdl.; *Philibertia anomala*  
Brandege; *Blepharodon anomalum* (Brandege) Schltr.; *Blepharodon salicinum* var.

*tetraglandulosum* Ram. Goyena. \_\_HA: vine. \_\_HB: scrub. \_\_LO: ICT: path from JP's house to Playa del Laboratorio. Near the Lab. \_\_DP: ca/cc/ch/cn/da/pa/vr/. \_\_AL: 0/1. \_\_WD: C Mexico to Colombia and Venezuela. \_\_US: \_\_VS: 1506 AI, 1781 AI. \_\_Photo: 87

## ASTERACEAE

***Acmella alba*** (L'Her.) R.K. Jansen

CN: *servulaca*. \_\_SY: *Spilanthus alba* Willd. \_\_HA: herb. \_\_HB: scrub. \_\_LO: ICT: Playa de los Luchos. \_\_DP: ca/cc/cn/da/he/lo/pa/vr/. \_\_AL: 0. \_\_WD: Panama. \_\_US: \_\_VS: 1388 AI. \_\_Photo: 101

***Ayapana elata*** (Steetz) R.M. King & H. Rob.

CN: \_\_SY: *Eupatorium elatum* Steetz; *Eupatorium sprucei* B.L. Rob. \_\_HA: shrub. \_\_HB: scrub. \_\_LO: BH: between El Suto and Jeringón. ICT: path from JP's house to Playa del Laboratorio. Path from Playa de los Luchos to N of the island. \_\_DP: bo/ca/cc/ch/pa/. \_\_AL: 0. \_\_WD: Costa Rica to Peru. \_\_US: \_\_VS: 1504 AI, 16447 SC, 1695 AI. \_\_Photo: 88

***Baccharis trinervis*** (Lam.) Pers.

CN: *santa maría*. \_\_SY: *Conyza trinervis* Lam.; *Baccharis rhexioides* Kunth; *Psila trinervis* (Pers.) Cabrera. \_\_HA: shrub. \_\_HB: scrub. \_\_LO: ICT: path from Playa de los Luchos to N of the island. \_\_DP: ca/cc/ch/cn/da/he/lo/pa/vr/. \_\_AL: 0/1. \_\_WD: widely distributed in tropical America. \_\_US: \_\_VS: 16044 SC. \_\_Photo:

***Baltimora recta*** L.

CN: *servulaca* \_\_SY: *Wedelia populifolia* Hook. & Arn. \_\_HA: herb. \_\_HB: scrub. \_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. \_\_DP: ca/cc/ch/cn/da/he/pa/vr/. \_\_AL: 0. \_\_WD: S Mexico to Panama. \_\_US: \_\_VS: 16365 SC. \_\_Photo:

***Calea jamaicensis*** (L.) L.

CN: *miel de tierra, escobilla*. \_\_SY: *Calea pittieri* B.L. Rob. & Greenm.; *Calea prunifolia* Kunth; *Calea Peckii* B.L. Rob.; *Santolina jamaicensis* L. \_\_HA: shrub. \_\_HB: scrub. \_\_LO: ICT: N of the island. Path close to the Lab. \_\_DP: bo/ca/cc/ch/cn/da/he/pa/sa/vr/. \_\_AL: 0. \_\_WD: Mexico to Colombia, Venezuela and Jamaica. \_\_US: \_\_VS: 1350 AI, 16184 SC. \_\_Photo: 89

***Centratherum punctatum*** Cass.

CN: \_\_SY: *Ampherephus aristata* Kunth; *Baccharoides punctatum* (Cass.) Kuntze; *Centrantherum violaceum* (Schrank) Gleason; *Centrantherum muticum* (Kunth) Less \_\_HA: herb. \_\_HB: open areas. \_\_LO: BH: Playa del Sol. \_\_DP: ca/cc/ch/he/pa/. \_\_AL: 0/1. \_\_WD: Central, South America and the Antilles. \_\_US: \_\_VS: 16075 SC. \_\_Photo:

***Chaptalia nutans*** (L.) Pol.

CN: *pasma de sol, amargón, diente de león*. \_\_SY: *Tussilago nutans* L. \_\_HA: vine. \_\_HB: scrub. \_\_LO: BH: Playa del Sol. ICT: N of the island. \_\_DP:

bo/ca/cc/ch/cn/da/he/lo/pa/sa/. **AL:** 0/1. **WD:** widely distributed from SW United States to Argentina. **US:** used to treat muscular pains, injuries and strains. Also in the cases of intestinal worms and ulcers (Gupta, 1995; Zapata, 1995). **VS:** 16207 SC, 16235 SC. **Photo:**

**Chromolaena odorata** (L.) R.M. King & H. Rob.

**CN:** *hierba de chiva, paleca, colindre, cohindre*. **SY:** *Eupatorium odoratum* L. **HA:** shrub. **HB:** scrub. **LO:** ICT: path from Playa de los Luchos to N of the island. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/sa/vr/. **AL:** 0. **WD:** widely distributed from N Mexico to Argentina. **US:** **VS:** 1407 AI. **Photo:** 90

**Clibadium** sp.

**CN:** **SY:** **HA:** shrub. **HB:** scrub. **LO:** BH: Punta Gorda ridge. **DP:** **AL:** **WD:** **US:** **VS:** 1356 AI, 16537 SC, 16517 SC, 16299 SC. **Photo:** 91

**Condylium iresinoides** (Kunth) R.M. King & H. Rob.

**CN:** **SY:** *Eupatorium iresinoides* Kunth; *Eupatorium macrum* Standl. & Steyerm. **HA:** herb. **HB:** scrub. **LO:** BH: path from Limón to El Edén. **DP:** ca/cc/da/pa/sa/. **AL:** 0. **WD:** widely distributed from Guatemala to Bolivia and the Antilles. **US:** **VS:** 1512 AI. **Photo:** 92

**Conyza bonariensis** (L.) Cronquist

**CN:** *tabaquillo, gallinaco*. **SY:** *Erigeron bonariensis* L. **HA:** herb. **HB:** scrub. **LO:** BH: Playa del Sol. **DP:** bo/ca/cc/ch/da/lo/pa/. **AL:** 0/1/2. **WD:** widely distributed in the mountains of North and South America; introduced in the Old World and SE United States. **US:** used as an insecticide, febrifuge, against intestinal worms, digestive, diuretic, against rheumatism, diarrhoea and urinary tract infections (Gupta, 1995). **VS:** 19583 JLFA. **Photo:**

**Eclipta prostrata** (L.) L.

**CN:** **SY:** *Verbesina prostrata* L. **HA:** herb. **HB:** scrub. **LO:** BH: Managua Island. **DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/. **AL:** 0. **WD:** almost cosmopolitan; in America from S United States to South America. **US:** **VS:** 16237 SC. **Photo:**

**Elephantopus angustifolius** Sw.

**CN:** **SY:** **HA:** herb. **HB:** open areas. **LO:** BH: Punta Gorda ridge. **DP:** ca/cc/ch/pa/. **AL:** 0/1. **WD:** Belize to Bolivia and Paraguay. **US:** **VS:** 16518 SC. **Photo:**

**Elephantopus mollis** Kunth

**CN:** *lengua de vaca*. **SY:** *Elephantopus carolinianus* var. *mollis* (Kunth) Beurlin; *Elephantopus hypomalacus* S.F. Blake **HA:** herb. **HB:** open areas. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/vr/. **AL:** 0/1. **WD:** pantropical; widely distributed in Central America. **US:** **VS:** 1634 AI. **Photo:**

**Fleischmannia misera** (B.L. Rob.) R.M. King & H. Rob.

**CN:** \_\_ **SY:** *Eupatorium miserum* B.L. Rob. \_\_ **HA:** herb. \_\_ **HB:** waterfalls. \_\_ **LO:** BH: Manglarito. \_\_ **DP:** da/. \_\_ **AL:** 0. \_\_ **WD:** Panama. \_\_ **US:** \_\_ **VS:** 1642 AI. \_\_ **Photo:** 93

**Fleischmannia pratensis** (Klatt) R.M. King & H. Rob.

**CN:** \_\_ **SY:** *Eupatorium pratense* Klatt; *Fleischmannia pycnocephala* (Less.) R.M. King & H. Rob.; *Eupatorium pratense* Klatt; *Fleischmannia panamensis* R.M. King & H. Rob. \_\_ **HA:** herb. \_\_ **HB:** scrub. \_\_ **LO:** ICT: path from JP's house to Playa del Laboratorio. \_\_ **DP:** bo/cc/ch/da/he/lo/pa/. \_\_ **AL:** 0/1. \_\_ **WD:** widely distributed from Mexico to N South America. \_\_ **US:** \_\_ **VS:** 1364 AI, 1502 AI. \_\_ **Photo:** 94-95

**Heterocondylus vitalbae** (DC.) R.M. King & H. Rob.

**CN:** *corrimiento de plátano*. \_\_ **SY:** *Eupatorium vitalbae* DC. \_\_ **HA:** shrub. \_\_ **HB:** scrub. \_\_ **LO:** BH: path from Limón to El Edén. Río Luis plains. \_\_ **DP:** ca/cc/ch/da/he/lo/pa/vr/. \_\_ **AL:** 0/1. \_\_ **WD:** Honduras to Peru and Paraguay. \_\_ **US:** \_\_ **VS:** 1590 AI, 1814 AI. \_\_ **Photo:** 96

**Lepidaploa canescens** (Kunth) H. Rob.

**CN:** *hierba de San José, hierba de San Juan*. \_\_ **SY:** *Vernonia canescens* Kunth \_\_ **HA:** shrub. \_\_ **HB:** scrub. \_\_ **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. ICT: path close to the Lab. N of the island. \_\_ **DP:** ca/cc/ch/cn/he/lo/pa/vr/. \_\_ **AL:** 0. \_\_ **WD:** Honduras to Bolivia. \_\_ **US:** \_\_ **VS:** 16170 SC, 16355 SC, 1348 AI. \_\_ **Photo:** 97

**Melampodium divaricatum** (Rich. ex Pers.) DC.

**CN:** *botón de oro, sirvulaca*. \_\_ **SY:** *Dysodium divaricatum* Rich. ex Pers.; *Melampodium paludosum* Kunth; *Melampodium tenellum* var. *flaccidum* Benth.; *Melampodium flaccidum* (Benth.) Benth. \_\_ **HA:** herb. \_\_ **HB:** open areas. \_\_ **LO:** BH: Punta Gorda ridge. \_\_ **DP:** bo/ca/cc/da/lo/pa/. \_\_ **AL:** 0. \_\_ **WD:** Mexico to Colombia and Brazil. \_\_ **US:** \_\_ **VS:** 16507 SC. \_\_ **Photo:**

**Melanthera aspera** (Jacq.) Small var. **aspera**

**CN:** *clavellina de monte, sirvulaca, julio, parita*. \_\_ **SY:** \_\_ **HA:** herb. \_\_ **HB:** scrub. \_\_ **LO:** BH: from Limón to El Edén. \_\_ **DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/vr/. \_\_ **AL:** 0. \_\_ **WD:** Mexico to Panama. \_\_ **US:** \_\_ **VS:** 1536 AI. \_\_ **Photo:** 98

**Neurolaena lobata** (L.) R. Br. ex Cass.

**CN:** *contragavilana* (BH), *amargón, contragavilán, gavilana, ina kaibit* (K), *ina kinkub'guid* (K), *inaciabi* (K). \_\_ **SY:** *Conyza lobata* L.; *Conyza symphytifolia* Mill.; *Pluchea symphytifolia* (Mill.) Gillis \_\_ **HA:** shrub. \_\_ **HB:** scrub. \_\_ **LO:** ICT: path from Playa de los Luchos to N of the island. \_\_ **DP:** bo/ca/cc/ch/cn/da/lo/pa/. \_\_ **AL:** 0. \_\_ **WD:** S Mexico to South America and the Antilles. \_\_ **US:** an infusion from the leaves and inflorescences is used against intestinal worms (Zapata, 1995). Decoction of leaves is used to treat stomach-ache and skin rash (Ocampo & al., 1997). Also in the cases of liver and bile flow disorders, diabetes and hypertension, fungal infections, malaria, diarrhoea, fevers and as a skin antiseptic (Gupta, 1995). Febrifuge, tonic, insect repellent (Joly & al., 1987). In baths it can be used to treat chiggers' bites (coloradillas) (BH). \_\_ **VS:** 1408 AI. \_\_ **Photo:** 99

**Sphagneticola trilobata** (L.) Pruski

**CN:** *clavellin de playa, mala mujer, hierba de laguna, maría de oro.* \_\_**SY:** *Wedelia trilobata* (L.) Hitchc.; *Complaya trilobata* (L.) Strother; *Thelechitonía trilobata* (L.) H. Rob. & Cuatrec. \_\_**HA:** herb. \_\_**HB:** open areas, beaches. \_\_**LO:** ICT: Playa de los Luchos. Playa del Laboratorio. \_\_**DP:** bo/ca/cn/lo/pa/sa/vr/. \_\_**AL:** 0. \_\_**WD:** tropical America. \_\_**US:** cultivated as ornamental (Woodson & Schery, 1975). \_\_**VS:** 1391 AI, 16025 SC. \_\_**Photo:** 100

**Vernonanthura patens** (Kunth) H. Rob.

**CN:** *botón de pega-pega, lengua de buey, lengua de vaca, salvia, palo blanco.* \_\_**SY:** *Vernonia patens* Kunth \_\_**HA:** shrub. \_\_**HB:** scrub. \_\_**LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. Surroundings of Playa Limón. From Jeringuita to Jeringón. ICT: next to the Lab. Path from the *Ceiba with the flag* to the Lab. \_\_**DP:** bo/ca/cc/ch/cn/da/he/pa/vr/. \_\_**AL:** 0/1. \_\_**WD:** Central America and N South America. \_\_**US:** inflorescences used for decorations and flower arrangements (Santana, 1998). \_\_**VS:** 1588 AI, 16297 SC, 1706 AI, 1779 AI, 2026 AI. \_\_**Photo:**

## BEGONIACEAE

**Begonia** sp.

**CN:** \_\_**SY:** \_\_**HA:** herb. \_\_**HB:** coastal fringe. \_\_**LO:** BH: surroundings of Salmonete. From "Cativo Forest" near Río Luis to Playa del Sol. El Edén. ICT: N of the island. Playa de los Luchos. \_\_**DP:** \_\_**AL:** \_\_**WD:** \_\_**US:** \_\_**VS:** 1435 AI, 1511 AI, 16547 SC, 16226 SC. \_\_**Photo:** 102-103-104-105

## BIGNONIACEAE

**Amphitecna latifolia** (Mill.) A.H. Gentry

**CN:** *calabazuelo (BH), calabacillo (BH), mariquito de marea, totumillo, tutumillo, tutumito.* \_\_**SY:** *Crescentia latifolia* Mill.; *Dendrosicus latifolius* (Mill.) A.H. Gentry \_\_**HA:** herb. \_\_**HB:** coastal forests, beaches. \_\_**LO:** ICT: N of the island. \_\_**DP:** bo/ca/cn/da/lo/pa/sa/vr/. \_\_**AL:** 0. \_\_**WD:** United States (S Florida) and Mexico to Ecuador. \_\_**US:** \_\_**VS:** 16154 SC. \_\_**Photo:** 106

**Anemopaegma orbiculatum** (Jacq.) DC.

**CN:** *bejuco blanco, bejuco tortugo.* \_\_**SY:** *Bignonia orbiculata* Jacq. \_\_**HA:** vine. \_\_**HB:** forests. \_\_**LO:** ICT: between Playa Naranja and the most NW point of the island. \_\_**DP:** ca/lo/pa/. \_\_**AL:** 0. \_\_**WD:** Nicaragua to NW Venezuela. \_\_**US:** fibers used for baskets, ropes and cabinet making. Also as an ornamental (Santana, 1998). \_\_**VS:** 16134 SC, 16533 SC. \_\_**Photo:**

**Arrabidaea patellifera** (Schltdl.) Sandwith

**CN:** \_\_**SY:** *Bignonia patellifera* Schltdl. \_\_**HA:** vine. \_\_**HB:** secondary forests, scrub. \_\_**LO:** BH: from Playa del Sol to El Edén. \_\_**DP:** ca/ch/da/he/pa/vr/. \_\_**AL:** 0. \_\_**WD:** Mexico to Brazil. \_\_**US:** \_\_**VS:** 1666 AI. \_\_**Photo:** 107-108

**Crescentia cujete** L.

**CN:** *calabazo (BH), totumo, calabash tree.* \_\_**SY:** \_\_**HA:** tree to 3 m. \_\_**HB:** cultivated. \_\_**LO:** BH: Playa del sol. \_\_**DP:** bo/ca/ch/da/lo/pa/sa/. \_\_**AL:** 0. \_\_**WD:** unknown natural distribution; probably native from Mexico to Nicaragua; widely cultivated. \_\_**US:**

used to make bowls, cutlery (forks, spoons, etc.), musical instruments (maracas) and handicrafts (Santana, 1998). Abortive, emetic, laxative, febrifuge and used against intestinal worms (Gupta, 1995). \_\_VS: 1786 Al. \_\_Photo: 109-110

**Godmania aesculifolia** (Kunth) Standl.

CN: *cachillo, cacho de vaca.* \_\_SY: *Bignonia aesculifolia* Kunth \_\_HA: tree to 15 m.  
\_\_HB: secondary forests. \_\_LO: ICT: forest N of the island. \_\_DP: ca/ch/da/he/pa/vr/.  
\_\_AL: 0. \_\_WD: Mexico to Bolivia. \_\_US: \_\_VS: 1996 Al. \_\_Photo:

**Macfadyena unguis-cati** (L.) A.H. Gentry

CN: \_\_SY: *Bignonia unguis-cati* L. \_\_HA: vine. \_\_HB: secondary forests. \_\_LO: BH: Punta Gorda ridge. \_\_DP: ca/pa/. \_\_AL: 0. \_\_WD: Mexico to Argentina and the Antilles. \_\_US: \_\_VS: 16475 SC. \_\_Photo:

**Mansoa sp.1**

CN: \_\_SY: \_\_HA: vine. \_\_HB: coastal forests, beaches. \_\_LO: BH: Punta Gorda ridge. ICT: forest N of the island. \_\_DP: \_\_AL: \_\_WD: \_\_US: \_\_VS: 16462 SC, 1439 Al.  
\_\_Photo: 111

**Mussatia hyacinthina** (Standl.) Sandwith

CN: \_\_SY: *Tynanthus hyacinthinus* Standl. \_\_HA: vine. \_\_HB: forests. \_\_LO: ICT: between Playa Naranjo and the most NW point of the island. \_\_DP: bo/cn/da/pa/vr/.  
\_\_AL: 0. \_\_WD: Belize to Guyana and Bolivia. \_\_US: \_\_VS: 16127 SC. \_\_Photo:

**Paragonia pyramidata** (Rich.) Bureau

CN: \_\_SY: *Bignonia pyramidata* Rich. \_\_HA: vine. \_\_HB: coastal forests, beaches. \_\_LO: ICT: Playa del Laboratorio. \_\_DP: bo/ca/cc/ch/cn/da/he/lo/pa/sa/. \_\_AL: 0.  
\_\_WD: Mexico to Brazil and Bolivia. \_\_US: \_\_VS: 1655 Al, 1794 Al. \_\_Photo:

**Pithecoctenium crucigerum** (L.) A.H. Gentry

CN: *peine de mono, monkey's hair brush.* \_\_SY: *Bignonia crucigera* L.; *Pithecoctenium echinatum* (Jacq.) Baill. \_\_HA: vine. \_\_HB: secondary and mature forests. \_\_LO: ICT. \_\_DP: bo/ca/ch/cn/da/pa/sa/vr/. \_\_AL: 0. \_\_WD: Mexico to Argentina. \_\_US: \_\_VS: 16528 SC. \_\_Photo:

**Pleonotoma variabilis** (Jacq.) Miers.

CN: \_\_SY: *Bignonia variabilis* Jacq. \_\_HA: vine. \_\_HB: scrub. \_\_LO: BH: Playa de Juana. \_\_DP: bo/ca/da/lo/pa/sa/. \_\_AL: 0. \_\_WD: Guatemala to Venezuela, Trinidad and Peruvian Amazon. \_\_US: \_\_VS: 1842 Al. \_\_Photo:

**Tabebuia palustris** Hemsl.

CN: *mangle marica.* \_\_SY: \_\_HA: shrub. \_\_HB: mangrove edge, beaches. \_\_LO: BH: El Edén. ICT: Playa de los Luchos. \_\_DP: ca/cc/da/pa/. \_\_AL: 0. \_\_WD: Costa Rica to Colombia and Ecuador. \_\_US: \_\_VS: 1491 Al, 2136 Al. \_\_Photo:

**Tabebuia rosea** (Bertol.) DC.

**CN:** *roble (BH), roble de sabana, roble sabanero*. **SY:** *Tecoma rosea* Bertol **HA:** tree to 35 m. **HB:** coastal forests, beaches. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. ICT: near Playa del Cedro. **DP:** bo/ca/cc/ch/da/he/pa/sa/vr/. **AL:** 0. **WD:** Mexico to Venezuela and Coastal Ecuador. **US:** shade and ornamental tree (Vozzo, 2002). Used against tonsillitis, external ulcers, diarrhoea, external fungal infections, wound healing, dysentery, headaches, colds and as an antidote against snake bites (Gupta, 1995; Correa & Bernal, 1989). The wood is high quality and is used to make fine furniture, floors, cabinets, decorative boards, handicrafts, cart wheels, boxes, firearm butts and small boats. Bark and leaves are used in traditional medicine. It has a great potential in apiculture (Pérez & Condit, 2002). **VS:** 16353 SC, 1657 AI. **Photo:**

## BIXACEAE

### *Bixa orellana* L.

**CN:** *achiote, achote*. **SY:** *Bixa upatensis* Ram. Goyena. **HA:** shrub. **HB:** cultivated, humid places. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** bo/ca/ch/cn/da/he/lo/pa/sa/vr/. **AL:** 0. **WD:** native from tropical America; widely distributed in all tropics. **US:** dye from the seeds is used to colour meals and as an insect repellent; fibers are obtained from the bark (Little & Wadsworth, 1964). **VS:** 16387 SC. **Photo:** 112

## BOMBACACEAE

### *Ceiba pentandra* (L.) Gaertn.

**CN:** *ceiba, bongo, ceibo bongo, kapok tree*. **SY:** *Bombax pentandrum* L. **HA:** tree to 50 m. **HB:** open areas or big gaps inside the mature forest. **LO:** BH: surroundings of Salmonete. **DP:** bo/ca/ch/da/pa/. **AL:** 0. **WD:** Mexico and the Caribbean to Brazil; also native at least in tropical Africa and possibly also in Sri Lanka and rest of tropical Asia. **US:** the light and soft wood is used to produce cellulose pulp, packing and boxes. The cottony filaments around the seeds are used for life jackets and mattresses and also for thermic isolation. Seeds have oil, and are eaten grounded or roasted, or used for making soap and margarines. The residuals after extracting the oils from the seeds are used as fodder for cattle. The bark, leaves and young shoots are used in traditional medicine. It's highly valued in apiculture (Pérez & Condit, 2002). Gynaecological problems (D'Arcy & Correa, 1985). **VS:** 16550 SC. **Photo:**

### *Ochroma pyramidale* (Cav. ex Lam.) Urb.

**CN:** *balso (BH), lano, lana, cotton tree*. **SY:** *Bombax pyramidale* Cav. ex Lam.; *Ochroma lagopus* Sw. **HA:** tree to 30 m. **HB:** secondary forests. **LO:** ICT: N of the island. **DP:** bo/ca/ch/cn/da/lo/pa/vr/. **AL:** 0. **WD:** Mexico to Bolivia and the Antilles. **US:** its extremely light and resistant wood makes it ideal for model-airplane construction, car models and surf boards. In the past the cottony filaments around the seeds were used to fill pillows and mattresses (León & Poveda, 2000). It is also used for making rafts (hence the name balsa, Spanish for raft). The seed's fibers are used for making cushions or life vests. Fast-growing species useful for rehabilitating degraded areas and also as an ornamental due to its showy leaves and flowers (Pérez & Condit, 2002). Seeds used to fill pillows (BH). **VS:** not collected. **Photo:** 113-114 (SC)



**Pachira aquatica** Aubl.

**CN:** fruta de mono, mamé de mono, sapote longo. **SY:** **HA:** tree to 20 m. **HB:** humid places. **LO:** BH: Playa del Sol. **DP:** bo/ca/cn/da/pa/. **AL:** 0. **WD:** Mexico to Brazil. **US:** used as an ornamental tree. Seeds are eaten when roasted (Vozzo, 2002). **VS:** 19576 JLFA. **Photo:**

**Pachira quinata** (Jacq.) W.S. Alverson

**CN:** cedro espino (BH), cedro espinoso. **SY:** *Bombax quinatum* Jacq.; *Bombacopsis quinata* (Jacq.) Dugand; *Pochota quinata* (Jacq.) W.D. Stevens; *Pochota vulgaris* Ram. Goyena. **HA:** tree to 40 m. **HB:** coastal forests, beaches. **LO:** BH: Playa del Sol. **ICT:** forest edge, beaches. Playa de los Luchos. **DP:** ca/cc/da/pa/. **AL:** 0. **WD:** Nicaragua to Venezuela. **US:** used to make handicrafts, cabinet making and tools such as troughs (Santana, 1998). This is one of the most valuable native timber used in substitution of *Cedrela odorata* in construction, furniture making, etc. It can be used in fine carpentry, doors, window frames, canoes, boxes, boards, etc. (Pérez & Condit, 2002). This species is interesting for plantation programmes. Fine and heavy wood used for furniture and boat construction (BH). **VS:** 16022 SC, 19570 JLFA, 19571 JLFA, 19573 JLFA, 19575 JLFA. **Photo:** 115-116-117-118-119-120

**Pachira sessilis** Benth.

**CN:** yuco (BH), ceibo, ceibo nuno. **SY:** *Bombacopsis sessilis* (Benth.) Pittier **HA:** tree to 35 m. **HB:** coastal fringe, beaches. **LO:** BH: El Edén Plot. Playa del Sol. **ICT:** Playa de los Luchos. Between Playa Naranja and the most NW point of the island. **DP:** ca/cc/ch/cn/pa/sa/vr/. **AL:** 0/1. **WD:** Costa Rica to Colombia. **US:** use for paper pulp production. The cottony filaments around the seeds are used to fill pillows and mattresses (León & Poveda, 2000). **VS:** 1381 AI, 16112 SC, 19572 JLFA, 19585 JLFA, 2279 AI. **Photo:** 122

**Pseudobombax septenatum** (Jacq.) Dugand

**CN:** barrigón. **SY:** *Bombax septenatum* (Jacq.) Dugand **HA:** tree to 30 m. **HB:** coastal fringe, beaches. **LO:** ICT: N of the island. **DP:** ca/cn/da/pa/. **AL:** 0. **WD:** Nicaragua to N Brazil and Peru. **US:** used as living fence; the cottony filaments around the seeds to fill pillows and mattresses (León & Poveda, 2000). It has a great potential in apiculture (Pérez & Condit, 2002). **VS:** 16215 SC, 19574 JLFA. **Photo:**

BORAGINACEAE

**Cordia alliodora** (Ruiz & Pav.) Oken

**CN:** laurel, laurel negro. **SY:** *Cerdana alliodora* Ruiz & Pav. **HA:** tree to 25 m. **HB:** secondary forests, scrub and pasturelands. **LO:** BH: path to the waterfall of Río Limón. El Edén. **DP:** bo/ca/ch/cn/da/he/lo/pa/sa/vr/. **AL:** 0. **WD:** Mexico to South America and the Antilles. **US:** timber used for construction, fences, furniture and handicrafts. Also as firewood (Santana, 1998). Mashed leaves and shoots are used as disinfectant, emollient and to heal wounds (Gupta, 1995). This species is grown in agroforestry plantations together with coffee and cocoa. It is frequently used for fence posts. It has a great potential in apiculture (Pérez & Condit, 2002). **VS:** 1473 AI, 1806 AI. **Photo:** 123

**Cordia bicolor** A. DC.

**CN:** *muñeco (BH), paico, laurel blanco*. **SY:** *Cordia trichostyla* Pittier; *Cordia belizensis* Lundell **HA:** tree to 20 m. **HB:** secondary forests, gaps in mature forests. **LO:** BH: from Jeringuita to Jeringón. Between Playa del Sol and Salmonete, Río Luis area. El Edén Plot. ICT: N of the island. **DP:** ca/ch/cn/da/pa/vr/. **AL:** 0. **WD:** Mexico to South America. **US:** the wood is of good quality, used in rural constructions and living fences (Pérez & Condit, 2002). **VS:** 16185 SC, 16378 SC, 2011 AI, 2190 AI. **Photo:**

***Cordia collococca* L.**

**CN:** **SY:** *Cordia micrantha* Sw. **HA:** tree to 8 m. **HB:** open areas. **LO:** BH: Punta Gorda ridge. Surroundings of Playa Limón. **DP:** bo/ca/ch/cn/he/lo/pa/sa/. **AL:** 0. **WD:** Mexico to N South America and the Antilles. **US:** **VS:** 16301 SC, 16510 SC. **Photo:**

***Cordia panamensis* L. Riley**

**CN:** *lengua de vaca, muñeco, paico*. **SY:** **HA:** tree to 10 m. **HB:** scrub. **LO:** ICT: between Playa Naranja and the most NW point of the island. **DP:** ca/cc/ch/cn/da/lo/pa/sa/vr/. **AL:** 0. **WD:** Mexico to N South America. **US:** **VS:** 16106 SC, 16136 SC, 16524 SC. **Photo:**

***Cordia spinescens* L.**

**CN:** *bejuco negro, rabo de iguana, diguiman goi (G)*. **SY:** *Cordia ferruginea* (Lam.) Roem. & Schult.; *Cordia costaricensis* I.M. Johnst. **HA:** shrub. **HB:** scrub. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. ICT: path close to the Lab. **DP:** bo/ca/cc/ch/cn/da/pa/sa/vr/. **AL:** 0/1. **WD:** Mexico to N South America. **US:** it has wound healing properties (Joly & al., 1990). **VS:** 1361 AI, 16323 SC. **Photo:** 124

***Heliotropium indicum* L.**

**CN:** *heliotropio, flor de alacrán*. **SY:** *Heliotropium cordifolium* Moench. **HA:** herb. **HB:** scrub, open areas. **LO:** BH: from Jeringuita to Jeringón. Punta Gorda ridge. **DP:** bo/ca/cc/da/lo/pa/vr/. **AL:** 0. **WD:** all warm regions in the world. **US:** **VS:** 16512 SC, 2009 AI. **Photo:**

***Tournefortia bicolor* Sw.**

**CN:** **SY:** *Tournefortia laevigata* Lam.; *Tournefortia nitida* Kunth **HA:** shrub or liana. **HB:** scrub, coastal fringe. **LO:** BH: Playa del sol. ICT: path from Playa de los Luchos to N of the island. **DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/vr/. **AL:** 0/1. **WD:** Mexico to South America. **US:** **VS:** 1662 AI, 1733 AI, 1956 AI. **Photo:** 125

***Tournefortia hirsutissima* L.**

**CN:** *canjaro*. **SY:** *Tournefortia billbergiana* Beurl.; *Messerschmidia hirsutissima* (L.) Roem. & Schult.; *Tournefortia elliptica* M. Martens & Galeotti; *Tournefortia schomburgkii* DC. **HA:** shrub or liana. **HB:** scrub. **LO:** BH: in the way to Río Seco headwaters. **DP:** bo/ca/ca/ch/cn/da/pa/. **AL:** 0/1. **WD:** Mexico to South America and the Antilles. **US:** **VS:** 2075 AI. **Photo:**

**BROMELIACEAE**

**Aechmea magdalenae** (André) André ex Baker

**CN:** *pita, piñuela*. **SY:** *Chevaliera magdalenae* André; *Bromelia magdalenae* (André) C.H. Wright; *Aechmea magdalenae* var. *quadricolor* M.B. Foster **HA:** terrestrial herb. **HB:** humid places. **LO:** ICT: Playa del Laboratorio. **DP:** bo/ca/ch/da/pa/sa/. **AL:** 0. **WD:** Mexico to Colombia, Venezuela and Ecuador. **US:** the fiber is used for sawing hats and bags (Santana, 1998). Also to make fishing rods, hammocks and ropes (Stevens & al., 2001). **VS:** not collected. **Photo:** 126-127-128

**Ananas comosus** (L.) Merr.

**CN:** *piña (BH), pineapple*. **SY:** *Bromelia comosa* L. **HA:** terrestrial herb. **HB:** cultivated. **LO:** **DP:** cultivated in all Panama. **AL:** **WD:** probably native to Central Brazil; widely cultivated in all tropics and sometimes naturalized. **US:** fruit is edible (BH). **VS:** not collected. **Photo:** 129

**Pitcairnia megasepala** Baker

**CN:** **SY:** **HA:** terrestrial herb. **HB:** coastal fringe. **LO:** ICT: forest N of the island. **DP:** da/lo. **AL:** 0/1. **WD:** Costa Rica to Panama. **US:** **VS:** 1445 Al. **Photo:** 130-131

**Tillandsia anceps** G. Lodd.

**CN:** *cogollos*. **SY:** **HA:** epiphyte. **HB:** forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** ca/cc/ch/cn/da/pa/vr/. **AL:** 0. **WD:** Central America to N South America. **US:** **VS:** 16339 SC. **Photo:**

**Tillandsia monadelpha** (E. Morren) Baker

**CN:** **SY:** *Phytarrhiza monadelpha* E. Morren **HA:** epiphyte. **HB:** mature forests. **LO:** BH: Punta Gorda ridge. **DP:** ca/cc/cn/da/pa/sa/vr/. **AL:** 0. **WD:** Belize to Ecuador and N Brazil. **US:** **VS:** 16501 SC. **Photo:**

**Tillandsia sp.1**

**CN:** **SY:** **HA:** epiphyte. **HB:** forests. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. **DP:** **AL:** **WD:** **US:** **VS:** 1620 Al. **Photo:**

**Vriesea sp.1**

**CN:** **SY:** **HA:** epiphyte. **HB:** humid places. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. **DP:** **AL:** **WD:** **US:** **VS:** 1619 Al. **Photo:**

**Vriesea sp.2**

**CN:** **SY:** **HA:** epiphyte. **HB:** open areas, mangroves, beaches. **LO:** BH: Playa del Sol. ICT: Playa de los Luchos. **DP:** . **AL:** . **WD:** . **US:** **VS:** not collected. **Photo:**

**BURMANNIACEAE**

**Apteria aphylla** (Nutt.) Barnhart ex Small

**CN:** \_\_ **SY:** *Lobelia aphylla* Nutt. \_\_ **HA:** saprophyte. \_\_ **HB:** scrub. \_\_ **LO:** ICT: in the path from the big *Ceiba with the flag* to the Lab. \_\_ **DP:** bo/da/sa/. \_\_ **AL:** 0. \_\_ **WD:** S United States to Peru, Bolivia, Paraguay and Brazil; the Antilles. \_\_ **US:** \_\_ **VS:** 1342 AI. \_\_ **Photo:** 138-139-140

## BURSERACEAE

**Bursera simaruba** (L.) Sarg.

**CN:** *almácigo* (BH), *cholo pelado* (BH), *carate*, *indio desnudo*, *indio en cuera*. \_\_ **SY:** *Pistacia simaruba* L.; *Elaphrium simaruba* (L.) Rose \_\_ **HA:** tree to 20 m. \_\_ **HB:** coastal forests. \_\_ **LO:** BH: Cativito. ICT: between Playa Naranjo and the most NW point of the island. \_\_ **DP:** ca/cc/ch/cn/da/he/lo/pa/vr/. \_\_ **AL:** 0. \_\_ **WD:** United States (Florida), NE Mexico to Peru and Brazil; the Antilles. \_\_ **US:** used to treat infected wounds and abscesses, also against diarrhoea, obesity and sexually transmitted infections (Gupta, 1995). Used as living fence; its smooth wood is good for matches (Montenegro, 1996). The trunk exudates a resin, used as gum, to be burn as incense, insect repellent and has medicinal properties (Vozzo, 2002). Bark used to treat snake bites (Ocampo & al., 1997). The resin is used in wound healing and botfly's larvae extraction (Pérez & Condit, 2002). \_\_ **VS:** 16102 SC, 2128 AI. \_\_ **Photo:** 142-143

**Protium tenuifolium** ssp. **mcleodii** (I.M. Johnst.) D.M. Porter

**CN:** *chutra* (BH), *conejo*. \_\_ **SY:** *Protium mcleodii* I.M. Johnst. \_\_ **HA:** tree to 30 m. \_\_ **HB:** mature forests. \_\_ **LO:** BH: between El Suto and Jeringón. ICT: path from Playa de los Luchos to N of the island. In Plot 1. N of the island. \_\_ **DP:** da/pa/. \_\_ **AL:** 0. \_\_ **WD:** Panama. \_\_ **US:** wood is used in carpentry, cabinet making, furniture, floors, interior constructions and domestic tools. Its resin has medicinal use, mainly to treat colds, asthma, headaches, botfly's larvae extraction and wound healing (Pérez & Condit, 2002). Used to make furniture (BH). \_\_ **VS:** 1418 AI, 16202 SC, 16434 SC, 1732 AI, 1759 AI. \_\_ **Photo:**

**Tetragastris panamensis** (Engl.) Kuntze

**CN:** *secuara* (BH), *secuaro* (BH), *animé*, *cedro macho*, *fruta de loro*, *secuadro*. \_\_ **SY:** *Hedwigia panamensis* Engl. \_\_ **HA:** tree to 30 m. \_\_ **HB:** humid forests. \_\_ **LO:** BH: El Edén Plot. ICT: Plot 1. Path from Playa de los Luchos to N of the island. Between Playa Naranjo and the most NW point of the island. \_\_ **DP:** ca/cc/ch/cn/da/pa/sa/vr/. \_\_ **AL:** 0. \_\_ **WD:** Belize to Venezuela, Guianas, Brazil and Bolivia. \_\_ **US:** the bark is used as a colorant (Ocampo & al., 1997). Wood is used in carpentry, cabinet making, interior constructions, furniture, floors and domestic tools (Pérez & Condit, 2002). Used to make furniture (BH). \_\_ **VS:** 16101 SC, 1726 AI, 1754 AI, 2220 AI, 2243 AI. \_\_ **Photo:** 144 AI

## CACTACEAE

**Epiphyllum phyllanthus** (L.) Haw.

**CN:** \_\_ **SY:** *Cactus phyllanthus* L.; *Epiphyllum pittieri* (F.A.C. Weber) Britton & Rose; *Epiphyllum hookeri* Haw. \_\_ **HA:** epiphyte. \_\_ **HB:** open areas, coastal fringe. \_\_ **LO:** BH: from Jeringuita to Jeringón. \_\_ **DP:** bo/ca/cc/ch/cn/da/pa/. \_\_ **AL:** 0/1. \_\_ **WD:** S Mexico to Argentina and Paraguay. \_\_ **US:** sleep disorders with body pains (Joly & al., 1987). \_\_ **VS:** 2029 AI. \_\_ **Photo:** 145 (AE) -146

## CANNACEAE

### ***Canna indica* L.**

**CN:** *chaquirá, maraca*. **SY:** *Canna lutea* Mill.; *Canna edulis* Ker Gawl.; *Canna liliiflora* Warsz. ex Planch.; *Canna sanctae-rosae* Kraenzl.; *Canna warszewiczii* var. *flameus* Ram. Goyena. **HA:** herb. **HB:** scrub. **LO:** BH: from Limón to El Edén. **DP:** bo/ca/cc/ch/cn/da/pa/. **AL:** 0/1. **WD:** tropical and subtropical America; widely cultivated and frequently naturalized. **US:** seeds are placed inside “maracas” (Santana, 1998). Ornamental (Stevens & al., 2001). **VS:** 1538 Al. **Photo:** 147-148

## CAPPARIDACEAE

### ***Capparis amplissima* Lam.**

**CN:** **SY:** *Capparis pendula* Triana & Planch. **HA:** shrub. **HB:** coastal fringe. **LO:** BH: Punta Gorda ridge. Playa del Sol. **DP:** bo/pa/. **AL:** 0. **WD:** S Nicaragua to Suriname, Peru and Bolivia; the Antilles. **US:** **VS:** 2134 Al, 16461 SC. **Photo:**

### ***Capparis frondosa* Jacq.**

**CN:** *contraprieta, escora*. **SY:** *Capparis baducca* L.; *Capparis stenophylla* Standl. **HA:** shrub o tree to 7 m. **HB:** mature forests, humid places. **LO:** ICT: The Aquarium. **DP:** ca/da/lo/pa/sa/. **AL:** 0. **WD:** NE Mexico to E Brazil and the Antilles. **US:** wood used to make handles for tools and chopping blocks (Pérez & Condit, 2002). **VS:** 1562 Al. **Photo:**

## CARYOPHYLLACEAE

### ***Drymaria cordata* (L.) Willd. ex Schult.**

**CN:** *tripa de pollo, coyuntura de pollo, nervita*. **SY:** *Holosteum cordatum* L. **HA:** herb. **HB:** open areas. **LO:** BH: Playa del Sol. **DP:** bo/ca/cc/ch/cn/he/lo/pa/sa/vr/. **AL:** 0/1/2. **WD:** almost pantropical. **US:** **VS:** 16073 SC. **Photo:**

## CECROPIACEAE

### ***Cecropia insignis* Liebm.**

**CN:** *guarumo blanco, guarumo rojo*. **SY:** *Cecropia eximia* Cuatrec. **HA:** tree to 20 m. **HB:** secondary forests, scrub. **LO:** ICT: Plot 1. **DP:** bo/ca/lo/pa/. **AL:** 0. **WD:** Honduras to Ecuador. **US:** the wood is soft and light, when mixed with cement is used in construction. Farmers cut the hollow trunks to make drinking vessels for cattle, also used in ditches and roofs. Dried trunks float and are used to make rafts, fishing net's floats and life jackets. New leaves are used as medicine. A tea made of them used to treat colds, bronchitis, asthma, diabetes, etc. (Pérez & Condit, 2000). **VS:** 1751 Al, 1876 Al. **Photo:**

### ***Cecropia peltata* L.**

**CN:** *guarumo*. **SY:** *Cecropia amphichlora* Standl. & L.O. Williams; *Cecropia asperrima* Pittier; *Cecropia hondurensis* Standl.; *Cecropia scabrifolia* V.A. Richt. **HA:** tree to 20 m. **HB:** secondary forests, scrub. **LO:** BH: surroundings of Playa Limón. El Edén Plot. Playa Caoba. **DP:** ca/cn/da/lo/pa/pa/sa/vr/. **AL:** 0. **WD:** Mexico to

N South America and Jamaica. \_\_US: wood mixed with cement is used to make compressed boards (Little & Wadsworth, 1964). \_\_VS: 16298 SC, 1906 AI, 2218 AI.

\_\_Photo:

**Pourouma bicolor** ssp. **scobina** (Benoist) C.C. Berg & van Heusden

CN: *guarumo chumico* (BH), *guarumo de montaña*. \_\_SY: *Pourouma scobina* Benoist

\_\_HA: tree to 25 m. \_\_HB: gaps in mature forests, secondary forests. \_\_LO: BH: between El Suto and Jeringón. Surroundings of Playa Limón. El Edén Plot. \_\_DP:

cc/cn/pa/sa/. \_\_AL: 0. \_\_WD: Mexico to Peru. \_\_US: leaves used to wash dishes and as sandpaper (Stevens & al., 2001). Mature fruits are edible (Pérez & Condit, 2002).

\_\_VS: 16266 SC, 16405 SC, 2212 AI. \_\_Photo: 150-151 (AE)

## CELASTRACEAE

**Maytenus schippii** Lundell

CN: \_\_SY: \_\_HA: tree to 20 m. \_\_HB: secondary and mature forests. \_\_LO: BH: from

Jeringuita to Jeringón. ICT: Plot 1. \_\_DP: ca/cn/da/. \_\_AL: 0. \_\_WD: Mexico to

Panama. \_\_US: \_\_VS: 1870 AI, 1871 AI, 2014 AI. \_\_Photo:

## CHRYSOBALANACEAE

**Chrysobalanus icaco** L.

CN: \_\_SY: \_\_HA: shrub. \_\_HB: beaches. \_\_LO: BH: Playa Limón. \_\_DP:

bo/ca/cc/cn/da/pa/sa/vr/. \_\_AL: 0. \_\_WD: United States (Florida) to S Brazil and also in Africa. \_\_US: fruits are edible and used to prepare cakes; in Costa Rica, a drink

(horchata) is prepared from the seeds (León & Poveda, 2000). \_\_VS: 16303 SC, 1987 AI. \_\_Photo: 152-153

**Hirtella racemosa** var. **hexandra** (Willd. ex Roem. & Schult.) Prance

CN: *camaroncillo* (BH). \_\_SY: *Hirtella hexandra* Willd. ex Roem. & Schult. \_\_HA:

shrub. \_\_HB: secondary and mature forests, scrub. \_\_LO: BH: surroundings of Playa

Limón. ICT: path from Playa de los Luchos to N of the island. In Plot 1. Path from Playa de los Luchos to Playa del Laboratorio. \_\_DP: bo/ca/cc/cn/da/he/lo/pa/sa/vr/. \_\_AL: 0.

\_\_WD: Mexico to S Brazil. \_\_US: \_\_VS: 1409 AI, 16264 SC, 1710 AI, 1736 AI.

\_\_Photo: 154

**Hirtella triandra** Sw. ssp. **triandra**

CN: *camaroncillo*, *camarón*, *garrapato*, *conejo*. \_\_SY: \_\_HA: tree to 20 m. \_\_HB:

mature forests. \_\_LO: BH: El Edén Plot. From "Cativo Forest" near Río Luis to Playa

del Sol. Path from Playa de Juana to the forest. \_\_DP: bo/ca/ch/cn/da/pa/sa/. \_\_AL: 0.

\_\_WD: Mexico to S Brazil. \_\_US: wood used in construction (Little & al., 1974). \_\_VS: 1613 AI, 1832 AI, 2225 AI. \_\_Photo:

**Licania arborea** Seem.

CN: *rasca* (BH), *rascador*, *raspa*. \_\_SY: *Licania seleriana* Loes. \_\_HA: tree to 20 m.

\_\_HB: river banks, open areas. \_\_LO: BH: from "Cativo Forest" near Río Luis to Playa

del Sol. From Limón to El Edén. \_\_DP: ca/cc/ch/pa/vr/. \_\_AL: 0. \_\_WD: Mexico to

Peru. \_\_US: the fruit is rich in inflammable oil, used to make soap, candles, fat, etc.

(Stevens & al., 2001). \_\_VS: 1549 AI, 1621 AI. \_\_Photo:

**Licania hypoleuca** Benth.

**CN:** *garrapata, rasca*. **SY:** **HA:** tree to 25 m. **HB:** mature forests. **LO:** BH: surroundings of Playa Limón. **DP:** bo/ca/da/pa/. **AL:** 0. **WD:** Mexico to Brazil. **US:** **VS:** 16270 SC. **Photo:** 155

**Licania platypus** (Hemsl.) Fritsch

**CN:** *sapote*. **SY:** *Moquilea platypus* Hemsl. **HA:** tree to 30 m. **HB:** mature forests, coastal forests. **LO:** BH: Río Seco headwaters. Between El Suto and Jeringón. **DP:** bo/ca/ch/da/lo/pa/. **AL:** 0. **WD:** Mexico to N Colombia. **US:** fruits are edible (León & Poveda, 2000). The timber has little use, but still used in rural constructions. The tree is usually planted as a fruit tree, ornamental and shade tree. It has a great potential in apiculture (Pérez & Condit, 2002). **VS:** 16402 SC, 2047 Al. **Photo:**

**Parinari chocoensis** Prance

**CN:** **SY:** **HA:** tree to 40 m. **HB:** mature forests. **LO:** BH: Río Seco headwaters. ICT: Plot 1. **DP:** bo/vr/. **AL:** 0. **WD:** Panama to Colombia (Chocó). **US:** **VS:** 1719 Al, 2063 Al. **Photo:**

**Chryso** sp.1

**CN:** **SY:** **HA:** shrub. **HB:** secondary forests. **LO:** BH: El Edén plot. **DP:** **AL:** **WD:** **US:** **VS:** 2257 Al. **Photo:**

CLETHRACEAE

**Clethra lanata** M. Martens & Galeotti

**CN:** *aguacatillo (BH), nance macho*. **SY:** *Clethra costaricensis* Britton; *Clethra panamensis* Standl. & L.O. Williams **HA:** tree to 15 m. **HB:** scrub, secondary and mature forests. **LO:** ICT: path from Playa de los Luchos to N of the island. In Plot 1. **DP:** cc/ch/he/pa/vr/. **AL:** 0/1. **WD:** Mexico to Panama. **US:** **VS:** 1416 Al, 1753 Al, 1858 Al. **Photo:** 156

CLUSIACEAE

**Calophyllum Braziliense** Cambess.

**CN:** *maría be (BH)*. **SY:** **HA:** tree to 30 m. **HB:** secondary and mature forests. **LO:** BH: from Jeringuita to Jeringón. ICT: Plot 1. **DP:** he/vr/. **AL:** 0. **WD:** S Mexico to Bolivia and the Antilles. **US:** hard and heavy wood used in construction and to make boats (León & Poveda, 2000). **VS:** 1748 Al, 2025 Al. **Photo:**

**Calophyllum inophyllum** L.

**CN:** *santa maría*. **SY:** **HA:** tree to 5 m. **HB:** cultivated. **LO:** BH: from Jeringuita to Jeringón. Between El Suto and Jeringón. **DP:** ca/he/pa/vr/. **AL:** 0. **WD:** native from Africa to South Pacific islands; commonly cultivated in tropical America tropical. **US:** wood used in construction, cabinet making and boats (Little & al., 1974). **VS:** 16398 SC, 2006 Al. **Photo:**

**Calophyllum longifolium** Willd.

**CN:** *maría copá* (BH). **SY:** **HA:** tree to 35 m. **HB:** mature and secondary forests. **LO:** BH: El Edén Plot. ICT: Plot 1. **DP:** ca/cn/da/he/pa/sa/vr/. **AL:** 0. **WD:** Costa Rica to Peru. **US:** high quality wood used widely, and sold commercially. It is used for floors, furniture, carpentry, cabinets, tool handles and railway sleepers. In some countries reforestation of degraded lands with species in this genus have been successful. The yellow latex is also used medicinally. Resins, oils and tannins are also obtained (Pérez & Condit, 2002). Latex used to heal wounds (BH). **VS:** 1764 AI, 1854 AI, 2268 AI. **Photo:** 157-158-159-160

**Clusia pratensis** Seem.

**CN:** **SY:** *Clusia minor* L. **HA:** shrub or tree to 5 m. **HB:** coastal fringe, open areas, forests. **LO:** ICT. **DP:** vr/he/cc/pa/cal/. **AL:** 0/1. **WD:** S Mexico to Bolivia and the Antilles. **US:** **VS:** 16526 SC. **Photo:**

**Clusia rosea** Jacq.

**CN:** *copé* (BH), *copey*. **SY:** **HA:** epiphytic tree to 30 m. **HB:** coastal fringe, open areas, forests. **LO:** ICT: The Aquarium. **DP:** ca/cc/ch/cn/he/pa/vr/. **AL:** 0/1/2. **WD:** United States (Florida) to N South America and the Antilles. **US:** used as firewood and rural constructions. Also in living fences and as an ornamental tree. At the times of the Colony, Spaniards used the leaves to write letters and as playing cards (León & Poveda, 2000). **VS:** 1584 AI. **Photo:**

**Garcinia intermedia** (Pittier) Hammel

**CN:** *satro colorado* (BH), *cero*, *chaparrón*, *madroño*, *satra*. **SY:** *Rheedia edulis* (Seem.) Planch. & Triana; *Rheedia intermedia* Pittier; *Rheedia tonnduziana* Engl.; *Calophyllum edule* Seem. **HA:** tree to 25 m. **HB:** humid mature forests. **LO:** BH: El Edén Plot. ICT: the most NW point of the island of the island. N of the island. **DP:** bo/ca/cc/ch/da/he/lo/pa/vr/. **AL:** 0/1. **WD:** Mexico to Panama. **US:** used as an ornamental tree. Fruits are edible (León & Poveda, 2000). The fruit's aril is edible and eaten locally; the wood of small trunks is sometimes used for making handles of tools (Pérez & Condit, 2002). **VS:** 1438 AI, 16219 SC, 2248 AI. **Photo:** 161

**Marila laxiflora** Rusby

**CN:** **SY:** *Marila verapazensis* Donn. Sm. **HA:** tree to 15 m. **HB:** mature and secondary forests. **LO:** BH: El Edén Plot. ICT: Plot 1. **DP:** ca/cc/cn/da/pa/. **AL:** 0. **WD:** Mexico to Bolivia and the Antilles. **US:** **VS:** 1882 AI, 2174 AI, 2232 AI. **Photo:**

**Vismia baccifera** (L.) Triana & Planch.

**CN:** *carachero* (BH), *achiotillo*, *pinta mozo*, *sangre de perro*, *sangrillo*, *carachillo*. **SY:** *Hypericum bacciferum* L.; *Vismia panamensis* Duchass. & Walp.; *Vismia mexicana* Schltld. **HA:** tree to 8 m. **HB:** big forest gaps, scrub. **LO:** BH: from Playa Jeringuita to Playa Blanca. ICT: between Playa Naranjo and the most NW point of the island. **DP:** ca/cc/ch/cn/da/pa/vr/. **AL:** 0. **WD:** S Mexico to S Colombia and C Venezuela. **US:** skin problems (Espinosa, 1998). Used as firewood and to make handles for tools. Dyes, tannins and oils are obtained from the resin. Indigenous people use the yellow latex as a dye to paint their bodies. It has a great potential for apiculture



(Pérez & Condit, 2002). Latex used to treat “carache” (skin disorder) (BH). \_\_VS: 16129 SC, 1925 AI. \_\_Photo: 162 (AE) 163

#### COCHLOSPERMACEAE

**Cochlospermum vitifolium** (Willd.) Spreng.

**CN:** *poro poro* (BH). \_\_SY: *Bombax vitifolium* Willd. \_\_HA: shrub or tree to 12 m. \_\_HB: open areas and scrub. \_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. ICT: path from Playa de los Luchos to N of the island. \_\_DP: ca/cc/cn/da/he/lo/pa/. \_\_AL: 0. \_\_WD: N Mexico to Ecuador and NE Brazil, Bolivia and the Antilles. \_\_US: fibers are extracted from the bark. Cottony hairs around the seeds are used to fill pillows (Little & Wadsworth, 1964). The wood is smooth and used to make paper pulp; the bark fibers for ropes. Leaves and flowers used as fodder for cattle. Bark, leaves, flowers and roots are used in traditional medicine. Sometimes used to treat snake bite. It is planted as an ornamental because of its showy yellow flowers. The poro-poro grows readily from cut branches stuck in the ground, and can be used in restoring of degraded land (Pérez & Condit, 2002). Boiled leaves used in baths against headache (BH). \_\_VS: 16325 SC, 1694 AI. \_\_Photo: 164-165-166

#### COMBRETACEAE

**Buchenavia capitata** (Vahl) Eichler

**CN:** *amarillo real*. \_\_SY: *Bucida capitata* Vahl \_\_HA: tree to 40 m. \_\_HB: mature and secondary forests, beaches. \_\_LO: BH: Manglarito. Surroundings of Playa Limón. \_\_DP: pa/vr/. \_\_AL: 0. \_\_WD: Costa Rica to Bolivia and the Antilles. \_\_US: timber used in cabinet making. The bark is rich in tannins (Little & Wadsworth, 1964). \_\_VS: 16265 SC, 1645 AI. \_\_Photo: 168

**Combretum fruticosum** (Loefl.) Stuntz

**CN:** *bejuco patena*, *bejuco pedorro*, *chupa chupa*, *pedorro*. \_\_SY: *Gaura fruticosa* Loefl.; *Combretum warszewiczianum* Eichler; *Combretum superbum* Pittier; *Combretum secundum* Jacq. \_\_HA: shrub or vine. \_\_HB: coastal fringe. \_\_LO: BH: from Playa del Sol to El Edén. Playa de Lerencito. \_\_DP: ca/cc/da/he/lo/pa/vr/. \_\_AL: 0. \_\_WD: C Mexico to N Argentina. \_\_US: \_\_VS: 1664 AI, 1467 AI. \_\_Photo: 169-170-171

**Combretum laxum** Jacq.

**CN:** \_\_SY: *Combretum epiphyticum* Pittier \_\_HA: shrub. \_\_HB: scrub, open areas. \_\_LO: BH: Río Limón. Path from Limón to El Edén. \_\_DP: ca/da/pa/. \_\_AL: 0. \_\_WD: C Mexico to N Argentina and the Antilles. \_\_US: \_\_VS: 1810 AI, 1973 AI. \_\_Photo:

**Conocarpus erectus** L.

**CN:** *mangle botón*, *mangle piñuelo*, *mangle torcido*, *buttonwood*. \_\_SY: \_\_HA: shrub or tree to 20 m. \_\_HB: mangroves and beaches. \_\_LO: BH: surroundings of Playa Limón. \_\_DP: bo/ca/cc/ch/cn/da/he/lo/pa/sa/. \_\_AL: 0. \_\_WD: Mexico to N Peru and C Brazil, the Antilles and W Africa. \_\_US: used to obtain coal, firewood and tannins (León & Poveda, 2000). \_\_VS: 16302 SC. \_\_Photo: 172-173-174 (SC)

**Laguncularia racemosa** (L.) C.F. Gaertn.

**CN:** *mangle blanco, white mangrove*. **\_\_SY:** *Conocarpus racemosus* L. **\_\_HA:** tree to 25 m. **\_\_HB:** mangroves. **\_\_LO:** BH: surroundings of Playa Limón. **\_\_DP:** bo/ca/ch/cn/da/lo/pa/sa/vr/. **\_\_AL:** 0. **\_\_WD:** Mexico to N Peru and the Antilles; W Africa. **\_\_US:** wood used in construction, for firewood and to make coal. Tannins are extracted from the bark (León & Poveda, 2000). The wood is hard, heavy and widely used in rural construction, beams, posts, railway sleepers, furniture, tool handles and musical instruments. The bark has tannins and is used for curing and dyeing leather. Medicinally it is used as an astringent. Same as other mangrove species, it protects coasts, estuaries and river mouths and acts as a refuge and food to many terrestrial and aquatic animal species (Pérez & Condit, 2002). **\_\_VS:** 16249 SC. **\_\_Photo:** 175-176

**Terminalia amazonia** (J.F. Gmel.) Exell

**CN:** *amarillo, amarillo carabazuelo, amarillo real, guayabo de montaña*. **\_\_SY:** *Chuncoa amazonia* J.F. Gmel.; *Terminalia odontoptera* Van Heurck & Müll. Arg.; *Terminalia obovata* (Ruiz & Pav.) Steud.; *Terminalia hayesii* Pittier; *Bucida angustifolia* DC.; *Bucida buceras* var. *angustifolia* (DC.) Eichler **\_\_HA:** tree to 35 m. **\_\_HB:** mature forests. **\_\_LO:** BH: Playa de Lerencito. **\_\_DP:** bo/ca/cn/da/pa/sa/. **\_\_AL:** 0. **\_\_WD:** Mexico to Bolivia. **\_\_US:** timber used in carpentry, cabinet making, furniture, handles for tools, platforms, boat decks, ships, bridges, railway sleepers, floors and in turnery. The bark has tannins and is used to cure leather. It has a great potential in apiculture (Pérez & Condit, 2002). **\_\_VS:** 1469 Al. **\_\_Photo:**

**Terminalia catappa** L.

**CN:** *almendro, indian almond*. **\_\_SY:** **\_\_HA:** tree to 20 m. **\_\_HB:** beaches. **\_\_LO:** ICT: from Naranjo Amargo to Playa de los Luchos. **\_\_DP:** bo/ca/ch/cn/da/sa/vr/. **\_\_AL:** 0. **\_\_WD:** native to tropical Asia; cultivated and frequently naturalized in the tropics, mainly on the coasts. **\_\_US:** medicinal, ornamental and edible fruits (León & Poveda, 2000). **\_\_VS:** 1579 Al. **\_\_Photo:** 177-178

**Terminalia oblonga** (Ruiz & Pav.) Steud.

**CN:** *guayabón (BH), amarillo, guayabillo, guayabillo blanco, guayabo de monte*. **\_\_SY:** *Gimberatea oblonga* Ruiz & Pav.; *Terminalia chiriquensis* Pittier; *Terminalia bucidoides* Standl. & L.O. Williams **\_\_HA:** tree to 40 m. **\_\_HB:** humid places. **\_\_LO:** BH: Salmonete plains. **\_\_DP:** bo/ca/ch/cn/da/lo/pa/. **\_\_AL:** 0. **\_\_WD:** S Mexico to Bolivia. **\_\_US:** the wood is heavy and used to build bridges, railway sleepers, cabinets, floors and posts for fences (Pérez & Condit, 2002). **\_\_VS:** 2032 Al. **\_\_Photo:**

COMMELINACEAE

**Dichorisandra hexandra** (Aubl.) Standl.

**CN:** *lirio*. **\_\_SY:** *Commelina hexandra* Aubl.; *Dichorisandra aubletiana* Schult. & Schult. f. **\_\_HA:** herb. **\_\_HB:** secondary forests. **\_\_LO:** BH: Punta Gorda ridge. Between Playa del Sol and Salmonete, Río Luis area. **\_\_DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/. **\_\_AL:** 0/1. **\_\_WD:** S Mexico to Paraguay. **\_\_US:** **\_\_VS:** 16360 SC, 16480 SC. **\_\_Photo:**

**Murdannia nudiflora** (L.) Brenan

**CN:** **\_\_SY:** *Commelina nudiflora* L. **\_\_HA:** herb. **\_\_HB:** open areas. **\_\_LO:** BH: Playa del Sol. Surroundings of Salmonete. **\_\_DP:** ca/pa/. **\_\_AL:** 0. **\_\_WD:** native to Asia and introduced in tropical America. **\_\_US:** **\_\_VS:** 16074 SC, 16541 SC. **\_\_Photo:**

## CONNARACEAE

### **Cnestidium rufescens** Planch.

**CN:** \_\_ **SY:** *Rourea hondurensis* Donn. Sm. **HA:** liana. **HB:** scrub, forests. **LO:** BH: Punta Gorda ridge. From Limón to El Edén. **ICT:** between Playa Naranjo and the most NW point of the island. **DP:** bo/ca/cc/ch/cn/da/he/pa/vr/. **AL:** 0. **WD:** Mexico to Colombia, Venezuela and Ecuador; also in Cuba. **US:** \_\_ **VS:** 1546 Al, 16105 SC, 16471 SC. **Photo:**

### **Connarus panamensis** Griseb.

**CN:** *palito bejuco*. **SY:** \_\_ **HA:** liana. **HB:** forests. **LO:** BH: Punta Gorda ridge. **DP:** ca/cc/ch/da/he/pa/vr/. **AL:** 0. **WD:** Guatemala to Venezuela. **US:** \_\_ **VS:** 16467 SC, 16470 SC. **Photo:**

## CONVOLVULACEAE

### **Bonamia** sp.1

**CN:** \_\_ **SY:** \_\_ **HA:** vine. **HB:** scrub. **LO:** BH: El Edén. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 1518 Al. **Photo:** 179

### **Ipomoea mauritiana** Jacq.

**CN:** \_\_ **SY:** *Convolvulus paniculatus* L.; *Ipomoea paniculata* (L.) R. Br. **HA:** vine. **HB:** secondary forests, open areas. **LO:** BH: surroundings of Playa Limón. Cativito. **DP:** bo/ca/ch/cn/da/pa/sa/. **AL:** 0. **WD:** Belize to Nicaragua; Panama to South America and the Antilles; introduced in the Old World. **US:** \_\_ **VS:** 16255 SC, 2114 Al. **Photo:**

### **Ipomea** sp.1

**CN:** \_\_ **SY:** \_\_ **HA:** vine. **HB:** scrub. **LO:** BH: Playa de Lerencito. From Cativales to Playa del Sol. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 1464 Al, 1636 Al. **Photo:** 180-181

### **Ipomea** sp.2

**CN:** \_\_ **SY:** \_\_ **HA:** vine. **HB:** scrub. **LO:** BH: path to the waterfall of Río Limón. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 1804 Al. **Photo:** 182 (MAG)

### **Merremia umbellata** (L.) Hallier f.

**CN:** *batatilla amarilla*. **SY:** *Convolvulus umbellatus* L.; *Ipomoea portobellensis* Beurl.; *Ipomoea polyanthes* Roem. & Schult. **HA:** vine. **HB:** scrub. **LO:** BH: Playa del sol. Path to the waterworks. Río Luis plains. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/sa/. **AL:** 0. **WD:** Mesoamerica and South America, also in the Antilles and the Old World. **US:** \_\_ **VS:** 1602 Al, 1778 Al. **Photo:** 183

### **Odonellia hirtiflora** (M. Martens & Galeotti) K.R. Robertson

**CN:** *batatilla macho*. **SY:** *Jacquemontia perryana* Duchass. & Walp.; *Jacquemontia hirtiflora* (M. Martens & Galeotti) O'Donell; *Ipomoea hirtiflora* M. Martens & Galeotti; *Ipomoea latescens* Seem.; *Jacquemontia paltycephala* Donn. Sm. **HA:** vine. **HB:**

scrub. \_\_LO: BH: from "Cativo Forest" near Río Luis to Playa del Sol. \_\_DP: ca/ch/da/he/pa/vr/. \_\_AL: 0. \_\_WD: Mexico to N South America. \_\_US: \_\_VS: 1591 AI. \_\_Photo: 184

## COSTACEAE

**Costus guanaiensis** var. **macrostrobilus** (K. Schum.) Maas

CN: \_\_SY: *Costus macrostrobilus* K. Schum. \_\_HA: herb. \_\_HB: scrub. \_\_LO: BH: El Edén. Surroundings of Playa Limón. ICT: path from Playa de los Luchos to the Train Station. Between Playa Naranjo and the most NW point of the island. \_\_DP: bo/ca/ch/da/pa/. \_\_AL: 0. \_\_WD: Central America and NW South America. \_\_US: urinary disorders (Stevens & al., 2001). \_\_VS: 16085 SC, 16291 SC, 1714 AI, 2152 AI. \_\_Photo:

**Costus pulverulentus** C. Presl

CN: \_\_SY: *Costus ruber* C. Wright ex Griseb.; *Costus sanguineus* Donn. Sm.; *Costus laxus* Petersen; *Costus formosus* C.V. Morton \_\_HA: herb. \_\_HB: scrub, secondary forests. \_\_LO: BH: between El Suto and Jeringón. Surroundings of Playa Limón. From Limón to El Edén. El Edén Plot. \_\_DP: bo/ca/cc/ch/cn/da/lo/pa/vr/. \_\_AL: 0. \_\_WD: Mexico to W South America and Cuba. \_\_US: \_\_VS: 1548 AI, 16286 SC, 16443 SC, 2265 AI. \_\_Photo: 185-186

**Costus scaber x lasius**

CN: *caña agria* (BH), *caña brava*. \_\_SY: \_\_HA: herb. \_\_HB: humid places. \_\_LO: BH: from "Cativo Forest" near Río Luis to Playa del Sol. \_\_DP: ch/. \_\_AL: 1. \_\_WD: Panama?. \_\_US: \_\_VS: 1624 AI. \_\_Photo: 187

**Costus villosissimus** Jacq.

CN: *caña de mico*, *caña agria*. \_\_SY: \_\_HA: herb. \_\_HB: scrub. \_\_LO: BH: Playa del Sol. \_\_DP: bo/ca/cc/ch/cn/da/he/pa/sa/. \_\_AL: 0. \_\_WD: Central America to Ecuador and the Caribbean. \_\_US: used as bleach or whitewasher for *Carludovica palmata* fibers. Also as an ornamental (Santana, 1998). \_\_VS: 16018 SC. \_\_Photo:

## CUCURBITACEAE

**Melothria scabra** Naudin

CN: *sandía de culebra*. \_\_SY: *Melothria donnell-smithii* Cogn.; *Melothria pringlei* (S. Watson) Mart. Crov.; *Melothria costensis* C. Jeffrey; *Apodanthera pringlei* S. Watson \_\_HA: vine. \_\_HB: scrub. \_\_LO: BH: from Limón to El Edén. \_\_DP: bo/ca/cc/ch/pa/. \_\_AL: 0/1. \_\_WD: S Mexico to N Colombia and Venezuela. \_\_US: \_\_VS: 1542 AI. \_\_Photo: 188

**Melothria trilobata** Cogn.

CN: *sandillita*, *wild cucumber*. \_\_SY: \_\_HA: vine. \_\_HB: scrub. \_\_LO: BH: from Limón to El Edén. Playa del Sol. \_\_DP: bo/ca/cn/da/lo/pa/sa/. \_\_AL: 0. \_\_WD: S Mexico to Colombia, Venezuela, Trinidad, Suriname and NE Brazil. \_\_US: \_\_VS: 1530 AI, 16234 SC. \_\_Photo: 189-190

**Psiguria warscewiczii** (Hook. f.) Wunderlin

**CN:** \_\_ **SY:** *Anguria warscewiczii* Hook. f. **HA:** vine. **HB:** scrub. **LO:** BH: path from Playa del Sol to Lerencito. **DP:** bo/ca/cc/ch/cn/da/lo/pa/vr/. **AL:** 0. **WD:** S Mexico to Ecuador. **US:** respiratory problems (Joly & *al.*, 1990). **VS:** 1677 Al. **Photo:** 191

**Rytidostylis gracilis** Hook. & Arn.

**CN:** *gallotillo, sandía, ñorbo cimarrón.* **SY:** *Elaterium gracile* (Hook. & Arn.) Cogn.; *Elaterium ciliatum* Cogn.; *Rytidostylis macrophyllus* (Standl. & Steyerl.) Dieterle; *Rytidostylis carthaginensis* sensu Fl. of Pma. **HA:** vine. **HB:** scrub. **LO:** BH: from Limón to El Edén. **DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/. **AL:** 0/1. **WD:** S Mexico to Colombia and Venezuela. **US:** \_\_ **VS:** 1522 Al. **Photo:** 192-193-194

CYCLANTHACEAE

**Asplundia alata** Harling

**CN:** \_\_ **SY:** \_\_ **HA:** robust herb. **HB:** mature forests. **LO:** BH: in the way to Río Seco headwaters. **DP:** ca/ch/cn/da/pa/sa/. **AL:** 0/2. **WD:** Costa Rica to Bolivia. **US:** \_\_ **VS:** 2103 Al. **Photo:** \_\_

**Carludovica palmata** Ruiz & Pav.

**CN:** *sukanka (BH), palma sombrero, jipijapa, bellota, palmita, portorrico, sombrero Panama, hat palm, Panama hat palm.* **SY:** \_\_ **HA:** robust herb. **HB:** secondary and mature forests, scrub. **LO:** BH: surroundings of Salmonete. Surroundings of Playa Limón. **DP:** bo/ca/cc/cn/da/pa/. **AL:** 0/1. **WD:** Mexico to Bolivia. **US:** young leaves are used to weave hats and baskets; the petiole for furniture. A species also used as ornamental (Santana, 1998). **VS:** 16259 SC, 16572 SC. **Photo:** 195 (SC) 196-197-198

**Cyclanthus bipartitus** Poit. ex A. Rich.

**CN:** *lengua de buey, portorrico.* **SY:** \_\_ **HA:** robust herb. **HB:** secondary and mature forests, scrub. **LO:** BH: surroundings of Playa Limón. **DP:** bo/ca/cc/ch/cn/da/pa/sa/vr/. **AL:** 0/1. **WD:** Mexico to Peru. **US:** the petiole of the leaves used for baskets and furniture (Santana, 1998). **VS:** 16260 SC. **Photo:** 199

CYPERACEAE

**Cyperus laxus** Lam.

**CN:** \_\_ **SY:** *Cyperus toluensis* Kunth; *Cyperus diffusus* var. *toluensis* (Kunth) Kük **HA:** herb. **HB:** scrub. **LO:** BH: from Limón to El Edén. ICT. **DP:** bo/ca/cc/ch/cn/da/pa/sa/vr/. **AL:** 0. **WD:** C Mexico to Paraguay and Bolivia; also Cuba. **US:** \_\_ **VS:** 1534 Al, 16026 SC. **Photo:** \_\_

**Cyperus ligularis** L.

**CN:** *cortadera.* **SY:** \_\_ **HA:** herb. **HB:** secondary forests. **LO:** BH: surroundings of Playa Limón. **DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/. **AL:** 0/1. **WD:** United States (Florida), N Mexico to Brazil and the Bahamas; also in tropical W Africa. **US:** \_\_ **VS:** 16253 SC. **Photo:** \_\_

**Cyperus luzulae** (L.) Retz.

**CN:** *pina* (K). **SY:** *Scirpus luzulae* L. **HA:** herb. **HB:** open areas, humid places. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. from "Cativo Forest" near Río Luis to Playa del Sol. **ICT:** between Playa Naranjo and the most NW point of the island. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/sa/. **AL:** 0/1. **WD:** S Mexico to S Brazil and Puerto Rico. **US:** to treat eye infections and childbirth problems (Gupta & al., 1993). **VS:** 16086 SC, 1630 AI, 16348 SC. **Photo:** 202

**Eleocharis** sp.

**CN:** **SY:** **HA:** herb. **HB:** humid places. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. Surroundings of Salmonete. **DP:** **AL:** **WD:** **US:** **VS:** 16560 SC, 1622 AI. **Photo:** 203

**Fimbristylis dichotoma** (L.) Vahl

**CN:** **SY:** *Scirpus dichotomus* L.; *Fimbristylis annua* var. *diphylla* (Retz.) Kük. **HA:** herb. **HB:** open areas. **LO:** ICT. **DP:** bo/ca/cc/ch/cn/da/he/pa/sa/vr/. **AL:** 0. **WD:** SE United States to most of South America and the Antilles; also in the Old World. **US:** **VS:** 16059 SC. **Photo:**

**Rhynchospora cephalotes** (L.) Vahl

**CN:** *paja de puerco* (BH), *paja macho de monte*. **SY:** *Scirpus cephalotes* L. **HA:** herb. **HB:** open areas, scrub. **LO:** ICT: between Playa Naranjo and the most NW point of the island. Close to JP's house. **DP:** ca/cn/pa/sa/vr/. **AL:** 0. **WD:** S Mexico to South America and the Antilles. **US:** rhizome is eaten by pigs (BH). **VS:** 16108 SC, 1365 AI. **Photo:** 204

**Rhynchospora nervosa** ssp. *ciliata* T. Koyama

**CN:** *clava*, *clavo*, *hierba estrella*, *junco menudo*. **SY:** *Dichromena ciliata* Vahl; *Rhynchospora nervosa* var. *ciliata* Kük.; *Rhynchospora ciliata* Kük. **HA:** herb. **HB:** open areas. **LO:** BH: El Edén. Between Playa del Sol and Salmonete, Río Luis area. **ICT:** N of the island. **DP:** . **AL:** 0. **WD:** Mexico to South America and the Antilles. **US:** **VS:** 1520 AI, 16188 SC, 16327 SC. **Photo:** 205

**Rhynchospora polyphylla** (Vahl) Vahl

**CN:** **SY:** *Schoenus polyphyllus* Vahl **HA:** herb. **HB:** scrub. **LO:** ICT: path from JP's house to Playa del Laboratorio. **DP:** ch/he/. **AL:** 0/1. **WD:** S Mexico to Peru, S Brazil and the Antilles. **US:** **VS:** 1497 AI. **Photo:** 206

**Scleria melaleuca** Rchb. ex Schltl. & Cham.

**CN:** *cortadera*. **SY:** *Scleria pterota* C. Presl; *Scleria pterota* var. *melaleuca* (Rchb. ex Schltl. & Cham.) Uittien **HA:** herb. **HB:** humid places . **LO:** BH: banks of Río Limón. **ICT:** **DP:** bo/ca/cc/ch/da/he/lo/pa/sa/vr/. **AL:** 0. **WD:** Mexico to Brazil, Bolivia and the Antilles. **US:** **VS:** 16056 SC, 1821 AI. **Photo:**

**Scleria mitis** P.J. Bergius

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** humid places. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. **DP:** bo/ca/cc/cn/pa/sa/. **AL:** 0. **WD:** S Mexico to Paraguay and the Antilles. **US:** \_\_ **VS:** 1600 AI. **Photo:**

**Scleria secans** (L.) Urb.

**CN:** *cortadera* (BH). **SY:** *Schoenus secans* L.; *Scleria reflexa* Kunth **HA:** herb. **HB:** scrub. **LO:** ICT: N of the island. Path from Playa de los Luchos to N of the island. **DP:** ca/ch/cn/da/pa/vr/. **AL:** 0. **WD:** Mexico to Bolivia and the Antilles. **US:** \_\_ **VS:** 1451 AI, 16179 SC. **Photo:** 207-208

DILLENIACEAE

**Curatella americana** L.

**CN:** *chumico*, *azufre*. **SY:** \_\_ **HA:** shrub. **HB:** scrub. **LO:** BH: path from Playa del Sol to Lerencito. **DP:** ca/cc/ch/pa/vr/. **AL:** 0. **WD:** C Mexico to Brazil and the Antilles. **US:** its rough leaves are used to wash up and as sandpaper (León & Poveda, 2000). **VS:** 1676 AI. **Photo:**

**Davilla kunthii** A. St.-Hil.

**CN:** *chumico pedorro*, *chumiquillo*, *kuegui dup* (K). **SY:** *Davilla aspera* (Aubl.) Benoist **HA:** liana. **HB:** scrub. **LO:** ICT: path from Playa de los Luchos to N of the island. Between Playa Naranja and the most NW point of the island. **DP:** bo/ca/cc/ch/cn/da/he/pa/vr/. **AL:** 0. **WD:** S Mexico to Brazil, Trinidad. **US:** used to treat children's colics (Gupta & al., 1993). **VS:** 1448 AI, 16133 SC. **Photo:** 211

**Dolioscarpus multiflorus** Standl.

**CN:** *pasmo de sol* (BH). **SY:** *Dolioscarpus guianensis* (Aubl.) Gilg **HA:** liana. **HB:** mature and secondary forests, beaches. **LO:** ICT: forest N of the island. Between Playa Naranja and the most NW point of the island. Path from Playa de los Luchos to N of the island. **DP:** ca/cn/. **AL:** 0. **WD:** Guatemala to Peru and also Cuba. **US:** the leaves are used for cleansing wounds (BH). **VS:** 1428 AI, 1455 AI, 16121 SC. **Photo:** 212

**Tetracera volubilis** L.

**CN:** *bejuco candela* (BH), *chumico*, *chumiquillo*, *pasmo de sol*. **SY:** \_\_ **HA:** liana. **HB:** scrub, coastal fringe. **LO:** BH: from Playa del Sol to El Edén. ICT: forest N of the island. **DP:** ca/cc/da/pa/. **AL:** 0. **WD:** Mexico to Peru and Brazil; also Cuba and Jamaica. **US:** \_\_ **VS:** 1443 AI, 1665 AI. **Photo:** 213-214

DIOSCOREACEAE

**Dioscorea mexicana** Scheidw.

**CN:** *cabeza de negro*, *cabeza de viejo*. **SY:** *Dioscorea macrostachya* Benth.; *Dioscorea deamii* Matuda. **HA:** vine. **HB:** scrub. **LO:** BH: surroundings of Salmonete. **DP:** bo/ca/cc/ch/cn/pa/sa/vr/. **AL:** 0/1. **WD:** C Mexico to Panama. **US:** \_\_ **VS:** 16562 SC. **Photo:**

ELAEOCARPACEAE

**Sloanea terniflora** (Moç. & Sessé ex DC.) Standl.

**CN:** *abrojo* (BH), *casaco*, *mamecillo dorado*, *mazamorro*, *terciopelo*. **SY:** *Lecostomon terniflorum* Sessé & Moc. ex DC.; *Sloanea quadrivalvis* Seem. **HA:** tree. **HB:** mature forests. **LO:** BH: Río Seco headwaters. El Edén Plot. **DP:** ca/cc/ch/he/lo/pa/vr/. **AL:** 0. **WD:** S Mexico to Peru, Bolivia and Brazil. **US:** **VS:** 2064 AI, 2081 AI, 2242 AI. **Photo:**

#### ERYTHROXYLACEAE

**Erythroxylum macrophyllum** Cav.

**CN:** **SY:** *Erythroxylum lucidum* Kunth; *Erythroxylum skutchii* Standl.; *Erythroxylum multiflorum* Lundell; *Erythroxylum costaricense* Donn. Sm. **HA:** shrub. **HB:** mature and secondary forests. **LO:** BH: Río Seco headwaters. ICT: N of the island. Path from Playa de los Luchos to N of the island. **DP:** cc/pa/ch/. **AL:** 0. **WD:** S Mexico to Bolivia and Brazil. **US:** **VS:** 1436 AI, 16223 SC, 2094 AI. **Photo:** 216-217

**Erythroxylum panamense** Turcz.

**CN:** **SY:** **HA:** shrub. **HB:** forests. **LO:** BH: from Jeringuita to Jeringón. **DP:** ca/cn/da/lo/pa/sa/vr/. **AL:** 0. **WD:** Panama and Colombia (Antioquia and Chocó). **US:** **VS:** 2008 AI. **Photo:**

#### EUPHORBIACEAE

**Acalypha diversifolia** Jacq.

**CN:** *palito feo*, *pateador*, *prende-prende*. **SY:** **HA:** shrub. **HB:** scrub, river banks. **LO:** BH: in the way to Río Seco headwaters. Between El Suto and Jeringón. between Playa del Sol and Salmonete, Río Luis area. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/vr/. **AL:** 0. **WD:** S Mexico to the C of South America. **US:** **VS:** 16316 SC, 16400 SC, 2060 AI. **Photo:**

**Acalypha macrostachya** Jacq.

**CN:** *rabo de gato*. **SY:** **HA:** shrub. **HB:** scrub, river banks. **LO:** BH: El Edén. between Playa del Sol and Salmonete, Río Luis area. Banks of Río Limón. **DP:** bo/ca/cc/cn/da/he/lo/pa/sa/vr/. **AL:** 0. **WD:** S Mexico to the C of South America. **US:** **VS:** 1513 AI, 16369 SC, 1797 AI. **Photo:**

**Acalypha villosa** Jacq.

**CN:** **SY:** **HA:** shrub. **HB:** scrub, river banks. **LO:** BH: El Edén forest. between Playa del Sol and Salmonete, Río Luis area. Surroundings of Salmonete. **DP:** bo/ca/ch/da/pa/vr/. **AL:** 0. **WD:** Mexico to the C of South America. **US:** **VS:** 16335 SC, 16551 SC, 16552 SC, 2138 AI. **Photo:**

**Acidoton nicaraguensis** (Hemsl.) G.L. Webster

**CN:** **SY:** *Cleidion nicaraguense* Hemsl.; *Gitara panamensis* Croizatv **HA:** shrub. **HB:** mature forests, river banks. **LO:** BH: Río Seco headwaters. **DP:** cn/da/pa/sa/. **AL:** 0. **WD:** Nicaragua to Colombia (Chocó). **US:** **VS:** 2038 AI, 2045 AI. **Photo:**



**Alchornea costaricensis** Pax & K. Hoffm.

**CN:** *lucia, nagua blanca*. **SY:** **HA:** tree to 30 m. **HB:** gaps in mature forests. **LO:** BH: Cativito. El Edén Plot. **DP:** bo/ca/cc/ch/cn/da/lo/pa/. **AL:** 0. **WD:** Nicaragua to Colombia and the Antilles. **US:** its light wood is used to make boxes, boards, plywood and paper pulp. It grows fast and is very appropriate for mixed plantations to help recovering degraded areas (Pérez & Condit, 2002). **VS:** 2113 AI, 2317 AI. **Photo:**

**Alchornea grandis** Benth.

**CN:** *baco*. **SY:** **HA:** tree to 20 m. **HB:** gaps in mature forests. **LO:** BH: El Edén Plot. ICT: Plot 1. N of the island. **DP:** da/vr/. **AL:** 0. **WD:** Panama to Peru and Bolivia. **US:** **VS:** 16211 SC, 1770 AI, 2176 AI, 2193 AI. **Photo:**

**Chamaesyce densiflora** (Klotzsch & Garcke) Millsp.

**CN:** **SY:** *Anisophyllum densiflorum* Klotzsch & Garcke; *Euphorbia densiflora* (Klotzsch & Garcke) Klotzsch **HA:** herb. **HB:** open areas. **LO:** BH: Playa del Sol. **DP:** ch/he/. **AL:** 0/1. **WD:** Mexico to N South America. **US:** **VS:** 16450 SC. **Photo:**

**Chamaesyce hyssopifolia** (L.) Small

**CN:** *hierba de pollo, golondrina, lechosa, verruguero*. **SY:** *Euphorbia hyssopifolia* L. **HA:** herb. **HB:** open areas. **LO:** BH: from Limón to El Edén. Playa del Sol. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/. **AL:** 0/1. **WD:** S United States to Argentina and the Antilles; introduced in the Old World tropics. **US:** used to treat warts, diarrhoea and coughs (Gupta, 1995). **VS:** 1537 AI, 16452 SC, 19580 JLFA. **Photo:** 218

**Cnidoscolus urens** (L.) Arthur

**CN:** *mala mujer, ortiga, ortiga brava, pringamoza*. **SY:** *Jatropha urens* L.; *Jatropha adenophila* Pax & K. Hoffm.; *Cnidoscolus adenophilus* (Pax & K. Hoffm.) Pax & K. Hoffm. **HA:** herb. **HB:** open areas. **LO:** BH: surroundings of Salmonete. **DP:** cc/he/pa/. **AL:** 0. **WD:** Mexico to Argentina. **US:** **VS:** 16557 SC. **Photo:**

**Croton schiedeanus** Schlttdl.

**CN:** *sangrillo de pasto*. **SY:** **HA:** shrub. **HB:** river banks. **LO:** BH: surroundings of Salmonete. Banks of Río Limón. **DP:** bo/cc/ch/cn/da/pa/sa/vr/. **AL:** 0/1. **WD:** Mexico (Caribbean coast) to Colombia, Venezuela and Peru. **US:** **VS:** 16577 SC, 1803 AI. **Photo:**

**Croton trinitatis** Millsp.

**CN:** *coquillito de cerro*. **SY:** *Croton miquelensis* A.M. Ferguson; *Croton tragioides* S.F. Blake **HA:** herb. **HB:** open areas, scrub. **LO:** BH: Punta Gorda ridge. From Jeringuita to Jeringón. Playa del Sol. Between Playa del Sol and Salmonete, Río Luis area. **DP:** ca/cc/cn/he/pa/. **AL:** 0. **WD:** S United States to South America and the Antilles. **US:** used to treat skin inflammations (Stevens & al., 2001). **VS:** 16508 SC, 16329 SC, 1934 AI, 2028 AI. **Photo:**

**Dalechampia cissifolia** ssp. **panamensis** (Pax & K. Hoffm.) G.L. Webster

**CN:** \_\_ **SY:** *Dalechampia heteromorpha* Pax & K. Hoffm.; *Dalechampia panamensis* Pax & K. Hoffm. **HA:** vine. **HB:** scrub. **LO:** BH: from Limón to El Edén. **DP:** bo/ca/cn/pa/. **AL:** 0. **WD:** Mexico (Oaxaca and Veracruz) to Panama. **US:** \_\_ **VS:** 1521 AI. **Photo:** 219-220-221

**Hippomane mancinella** L.

**CN:** *manzanillo* (BH), *manzanillo de playa*, *beach apple*. **SY:** \_\_ **HA:** tree to 15 m. **HB:** beaches. **LO:** BH: from Jeringuita to Jeringón. **DP:** a/cc/ch/da/pa/sa/. **AL:** 0. **WD:** United States (S Florida) and Mexico to N South America and the Antilles. **US:** timber used in construction, interiors and cabinet making (Little & Wadsworth, 1964). **VS:** 2002 AI. **Photo:** 222 (SC)

**Hyeronima alchorneoides** Allemão

**CN:** *zapatero* (BH), *palo chancho*, *pantano*, *bully tree*. **SY:** *Hieronyma laxiflora* (Tul.) Müll. Arg. **HA:** tree to 35 m. **HB:** mature and secondary forests. **LO:** BH: El Edén Plot. Surroundings of Playa Limón. ICT: path N of the island. N of the island. **DP:** bo/ca/ch/cn/da/pa/. **AL:** 0. **WD:** S Mexico and Belize to Bolivia and S Brazil. **US:** it has a heavy wood useful in many kinds of construction, especially marine but also bridges, posts for fences, barrels, wagon bottoms and railway sleepers. Oils from the seeds are used as an anti-helminthic (Pérez & Condit, 2002). Timber used to make boat keels (BH). **VS:** 16208 SC, 16279 SC, 1756 AI, 2153 AI, 2194 AI. **Photo:** 223

**Jatropha curcas** L.

**CN:** *árbol santo*, *coquillo*, *jaquillo*, *piñón*. **SY:** \_\_ **HA:** shrub. **HB:** open areas. **LO:** BH: from Jeringuita to Jeringón. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/. **AL:** 0. **WD:** probably native to Mexico but widely distributed in the tropics. **US:** used to cure infected wounds, ulcers and indigestion. Its latex is haemostat and used to treat haemorrhoids and burns (Gupta, 1995). **VS:** 2024 AI. **Photo:** \_\_

**Mabea occidentalis** Benth.

**CN:** \_\_ **SY:** \_\_ **HA:** tree to 20 m. **HB:** mature forests, coastal forests. **LO:** BH: Punta Gorda ridge. ICT: Playa de los Luchos. **DP:** ca/cn/da/pa/sa/vr/. **AL:** 0/1. **WD:** Mexico to N South America. **US:** \_\_ **VS:** 1377 AI, 16496 SC. **Photo:** 224-225

**Manihot esculenta** Crantz

**CN:** *cassava*, *yuca*, *mam* (K). **SY:** *Jatropha manihot* L.; *Manihot utilissima* Pohl; *Manihot dulcis* (J.F. Gmel.) Pax **HA:** shrub. **HB:** cultivated. **LO:** BH: close to Playa Blanca. **DP:** bo/ca/ch/da/he/pa/sa/vr/. **AL:** 0. **WD:** probably native to South America and cultivated in the tropics. **US:** used against vomiting, high blood pressure and diarrhoea (Zapata, 1995). Root is widely eaten and used to extract starch (Simpson & Ogorzaly, 1995). Inhabitants of the Atlantic coast of Nicaragua use it to treat fever and diarrhoea (Stevens & al., 2001). Skin antiseptic (D'Arcy & Correa, 1985). **VS:** 1904 AI. **Photo:** \_\_

**Margaritaria nobilis** L. f.

**CN:** \_\_ **SY:** *Phyllanthus nobilis* (L. f.) Müll. Arg.; *Phyllanthus nobilis* var. *hypomalacus* Standl. **HA:** tree to 10 m. **HB:** secondary forests. **LO:** BH: between Playa del

Sol and Salmonete, Río Luis area. Punta Gorda ridge. El Edén. **DP:** bo/ca/ch/cn/da/lo/pa/sa/. **AL:** 0. **WD:** Mexico to Brazil and the Antilles. **US:** **VS:** 16390 SC, 16469 SC, 2150 AI. **Photo:**

**Omphalea diandra** L.

**CN:** *bejuco bobo* (BH). **SY:** *Omphalea panamensis* (Beurl.) I.M. Johnst. **HA:** liana. **HB:** mature and secondary forests, beaches. **LO:** BH: Playa del Sol. **DP:** bo/ca/ch/da/pa/vr/. **AL:** 0. **WD:** Honduras to Peru, Brazil and the Antilles. **US:** **VS:** 16312 SC, 1958 AI. **Photo:** 226-227

**Pausandra trianae** (Müll. Arg.) Baill.

**CN:** **SY:** *Pogonophora trianae* Müll. Arg.; *Pogonophora extorris* Standl.; *Clavija septentrionalis* L.O. Williams **HA:** tree to 10 m. **HB:** mature forests. **LO:** BH: Río Seco headwaters. **DP:** bo/sa/. **AL:** 0. **WD:** Nicaragua to W Brazil. **US:** **VS:** 2039 AI. **Photo:**

**Phyllanthus urinaria** L.

**CN:** **SY:** **HA:** herb. **HB:** open areas. **LO:** BH: Playa del Sol. From Limón to El Edén. **DP:** bo/ca/cc/ch/cn/da/pa/sa/. **AL:** 0. **WD:** native to the Old World, widely distributed in the tropics. **US:** **VS:** 1529 AI, 16451 SC. **Photo:** 228

**Sapium glandulosum** (L.) Morong

**CN:** *lechoso* (BH), *olivo*, *olivo macho*. **SY:** *Hippomane glandulosa* L.; *Sapium biglandulosum* (L.) Müll. Arg.; *Sapium aucuparium* Jacq.; *Sapium oligoneurum* K. Schum. & Pittier; *Sapium caudatum* Pittier **HA:** tree to 30 m. **HB:** secondary forests. **LO:** BH: surroundings of Salmonete. **DP:** bo/ch/lo/ca/cc/cn/pa/da/sa/. **AL:** 0/1. **WD:** Mexico to Brazil and Paraguay. **US:** timber used to make boxes; also in living fences, since it sprouts easily. The white and milky latex is used in rural areas for making rubber and glue. This glue is placed on tree branches to trap birds in much of the country's interior (Pérez & Condit, 2002). **VS:** 16573 SC. **Photo:** 229

**Tetrorchidium rotundatum** Standl.

**CN:** **SY:** **HA:** tree to 30 m. **HB:** secondary and mature forests. **LO:** BH: El Edén Plot. **DP:** **AL:** 0. **WD:** SE Mexico to Costa Rica and now in Panama. **US:** **VS:** 2189 AI, 2267 AI. **Photo:**

FABACEAE-CAESALPINOIDEAE

**Bauhinia guianensis** Aubl.

**CN:** *escalera de mono* (BH), *bejuco de cadena*, *bejuco de mono*. **SY:** *Bauhinia excisa* (Griseb.) Hemsl.; *Bauhinia manca* Standl.; *Bauhinia obovata* S.F. Blake; *Bauhinia sericella* Standl.; *Schnella obovata* (S.F. Blake) Britton & Rose; *Schnella splendens* (Kunth) Benth.; *Schnella excisa* Griseb. **HA:** liana. **HB:** mature and secondary forests. **LO:** BH: between El Suto and Jeringón. Playa del Sol. **DP:** bo/ca/cc/cn/da/pa/sa/vr/. **AL:** 0. **WD:** S Mexico to Bolivia and also in Trinidad. **US:** used to treat weakness and kidney disorders. Also as a Christmas decoration (Ocampo & al., 1997). **VS:** 16419 SC, 1954 AI. **Photo:** 230-231

**Caesalpinia crista** L.

**CN:** *calentura, hembra and macho, mato, sea bean.* **SY:** *Caesalpinia bonduc* (L.) Roxb. **HA:** shrub. **HB:** beaches. **LO:** BH: Manglarito. **DP:** ca/cc/ch/cn/pa/. **AL:** 0. **WD:** probably native to the Old World; it is nowadays distributed on coasts of both hemispheres. **US:** **VS:** 1653 Al. **Photo:** 232-233

**Copaifera aromatica** Dwyer

**CN:** *cabimo (BH), cabimo blanco, cabimo negro.* **SY:** **HA:** tree to 35 m. **HB:** mature forests. **LO:** ICT: Plot 1. From Naranjo Amargo to Playa de los Luchos. N of the island. **DP:** ch/da/pa/vr/. **AL:** 0. **WD:** Nicaragua to Panama. **US:** The wood is fine quality and widely used for cabinet making, carpentry, flooring, lathes, furniture, heavy construction, bridges and railway sleepers. The resin is widely used medicinally to treat bronchitis, asthma and colds. It has a great potential for apiculture (Pérez & Condit, 2002). **VS:** 1580 Al, 16212 SC, 1765 Al. **Photo:** 234

**Hymenaea courbaril** L.

**CN:** *algarrobo (BH).* **SY:** *Hymenaea candolleana* Kunth; *Inga megacarpa* M.E. Jones **HA:** tree to 40 m. **HB:** mature forests and open areas. **LO:** BH: Manglarito. ICT: path from JP's house to Playa del Laboratorio. **DP:** ca/cc/ch/da/he/pa/vr/. **AL:** 0. **WD:** Mexico to Bolivia, French Guiana and the Antilles. **US:** wood is used in cabinet making and construction; seeds for handicrafts (Santana, 1998). Resins are used to make varnish, burnt as incense and in popular medicine. The pulp around the seeds is edible and used to give a flavour to drinks. When fermented it produces a kind of beer. Bark used to make canoes and in substitution of quinine (Stevens & *al.*, 2001). Mouth ulcers and kidney pains (Gupta, 1995). Edible fruit (BH). **VS:** 1498 Al, 1637 Al, 16525 SC. **Photo:** 235-236-237

**Mora oleifera** (Triana ex Hemsl.) Ducke

**CN:** *alcornoque.* **SY:** *Dimorphandra oleifera* Triana ex Hemsl.; *Mora megistosperma* (Pittier) Britton & Rose; *Dimorphandra megistosperma* Pittier **HA:** tree to 35 m. **HB:** beaches, mangrove margins, waterlogged areas. **LO:** BH: Magic Forest. **DP:** da/pa. **AL:** 0. **WD:** Costa Rica to Colombia. **US:** timber yielding species (León & Poveda, 2000). **VS:** not collected. **Photo:**

**Prioria copaifera** Griseb.

**CN:** *cativo, soila (K).* **SY:** **HA:** tree to 50 m. **HB:** mangrove margins, waterlogged areas. **LO:** ICT: Plot 1. **DP:** bo/ca/da/sa/. **AL:** 0. **WD:** Nicaragua to N Colombia and Jamaica. **US:** timber yielding species; seeds edible. Indigenous people use the resin to trap small birds (Vozzo, 2002). Tonic, energetic (Gupta & *al.*, 1993). **VS:** 1744 Al. **Photo:**

**Senna hayesiana** (Britton & Rose) H.S. Irwin & Barneby

**CN:** *frijolillo.* **SY:** *Chamaefistula hayesiana* Britton & Rose; *Cassia maxonii* (Britton & Rose) Schery; *Cassia hayesiana* (Britton & Rose) Standl. **HA:** shrub. **HB:** scrub. **LO:** ICT: path from JP's house to Playa del Laboratorio. **DP:** ca/cc/ch/pa/. **AL:** 0/1. **WD:** Central America to N South America. **US:** **VS:** 1500 Al. **Photo:** 238

**Senna reticulata** (Willd.) H.S. Irwin & Barneby

**CN:** laureño, laureña, kränäm (G). **SY:** *Cassia reticulata* Willd. **HA:** tree to 8 m.  
**HB:** scrub and pasturelands. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. From Limón to El Edén. From "Cativo Forest" near Río Luis to Playa del Sol.  
**DP:** bo/ca/cc/da/he/lo/pa/. **AL:** 0. **WD:** S Mexico to coastal Ecuador and Amazonia. **US:** used to cause vomiting, to treat rheumatism, as a skin antiseptic and for invigorating the circulation (Joly & al., 1987; Gupta, 1995). **VS:** 1552 AI, 1623 AI, 16379 SC. **Photo:** 239-240

#### FABACEAE-MIMOSOIDEAE

##### **Acacia collinsii** Saff.

**CN:** cachito, cuernito. **SY:** *Acacia costaricensis* Schenck **HA:** tree or shrub to 3 m.  
**HB:** scrub. **LO:** BH: surroundings of Salmonete. **DP:** ca/cc/ch/he/lo/pa/vr/.  
**AL:** 0. **WD:** SE Mexico to NE Colombia. **US:** toothache and urinary track infections (Montenegro, 1996). **VS:** 16565 SC. **Photo:**

##### **Albizia adinocephala** (Donn. Sm.) Britton & Rose

**CN:** **SY:** *Pithecellobium adinocephalum* Donn. Sm. **HA:** tree to 20 m. **HB:** scrub, secondary forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. From "Cativo Forest" near Río Luis to Playa del Sol. **DP:** ca/pa/. **AL:** 0.  
**WD:** SE Mexico to Panama. **US:** **VS:** 1629 AI, 16314b SC, 1939 AI. **Photo:**

##### **Calliandra sp.1**

**CN:** **SY:** **HA:** shrub. **HB:** scrub. **LO:** BH: Río Limón. **DP:** **AL:** **WD:** **US:** **VS:** 1976 AI. **Photo:**

##### **Calliandra sp.2**

**CN:** **SY:** **HA:** shrub. **HB:** scrub. **LO:** BH: Río Seco headwaters. **DP:** **AL:** **WD:** **US:** **VS:** 2085 AI. **Photo:**

##### **Cojoba rufescens** (Benth.) Britton & Rose

**CN:** coralillo (BH), harino, jarino, flor de indio. **SY:** *Inga rufescens* Benth.; *Pithecellobium rufescens* (Benth.) Pittier; *Cojoba tubulifera* (Benth.) Britton & Rose; *Pithecellobium tubuliferum* (Benth.) Pittier **HA:** tree to 5 m. **HB:** humid places.  
**LO:** BH: from Limón to El Edén. Punta Gorda ridge. **DP:** ca/cc/cn/da/he/lo/pa/sa/.  
**AL:** 0/1. **WD:** Costa Rica to Colombia (Chocó, Antioquia) and Ecuador. **US:** **VS:** 1528 AI, 16481 SC. **Photo:** 241

##### **Cojoba tubulifera** (Benth.) Britton & Rose

**CN:** **SY:** **HA:** tree to 5 m. **HB:** mature and secondary forests, scrub. **LO:** ICT: N of the island. Playa de los Luchos. Path from the big *Ceiba with the flag* to the Lab. In Plot 1. **DP:** **AL:** 0. **WD:** Panama. **US:** **VS:** 1397 AI, 16189 SC, 1705 AI, 1865 AI. **Photo:** 242-243

##### **Entada monostachya** DC.

**CN:** javilla. **SY:** *Entada gigas* (L.) Fawc. & Rendle **HA:** liana. **HB:** scrub, secondary forests. **LO:** BH: El Edén. Playa de Juana. Manglarito. ICT: Lab area.

\_\_DP: bo/ca/da/pa/. \_\_AL: 0. \_\_WD: S Mexico to South America and the Antilles; also in Central and W Africa. \_\_US: \_\_VS: 1652 AI, 1831 AI, 2145 AI, 2345 AI. \_\_Photo:

**Entadopsis polystachya** (L.) Britton in Britton & Rose

CN: \_\_SY: *Mimosa polystachya* L.; *Adenopodia polystachya* (L.) J.R. Dixon ex Croat; *Entada polystachya* (L.) DC. \_\_HA: liana. \_\_HB: coastal fringe. \_\_LO: ICT: Playa de los Luchos. \_\_DP: bo/ca/ch/he/pa/. \_\_AL: 0. \_\_WD: W Mexico (Sinaola) to South America. \_\_US: \_\_VS: 1392 AI. \_\_Photo: 244

**Enterolobium schomburgkii** (Benth.) Benth.

CN: *corotú* (BH), *corotú de montaña* (BH), *jarina*, *guabino*. \_\_SY: *Pithecellobium schomburgkii* Benth. \_\_HA: tree to 30 m. \_\_HB: secondary forests. \_\_LO: BH: from Playa del Sol to El Edén. El Edén Plot. ICT: N of the island. \_\_DP: ch/pa/. \_\_AL: 0. \_\_WD: S Mexico to Bolivia and Brazil. \_\_US: boat keel construction (BH). \_\_VS: 16204 SC, 1670 AI, 2246 AI. \_\_Photo: 245-246

**Inga acuminata** Benth.

CN: \_\_SY: \_\_HA: tree to 15 m. \_\_HB: mature forests. \_\_LO: BH: El Edén Plot. \_\_DP: bo/ca/da/. \_\_AL: 0. \_\_WD: Costa Rica to Venezuela, Peru (Amazonas) and N Brazilian Amazon. \_\_US: \_\_VS: 2206 AI, 2285 AI, 2287 AI. \_\_Photo:

**Inga densiflora** Benth.

CN: *guabo* (BH). \_\_SY: *Inga monticola* Pittier \_\_HA: tree to 18 m. \_\_HB: mature forests. \_\_LO: BH: El Edén Plot. ICT: Plot 1. Playa del Laboratorio. \_\_DP: ch/cc/he/vr/sa/. \_\_AL: 0. \_\_WD: Mexico to Venezuela, Ecuador and Peru. \_\_US: \_\_VS: 1772 AI, 1795 AI, 2185 AI, 2210 AI, 2260 AI. \_\_Photo:

**Inga mucuna** Walp. & Duchass.

CN: \_\_SY: \_\_HA: tree to 15 m. \_\_HB: secondary forests. \_\_LO: BH: El Edén Plot. Río Seco headwaters. \_\_DP: bo/ca/da/pa/sa/. \_\_AL: 0. \_\_WD: Panama and Colombia. \_\_US: \_\_VS: 2074 AI, 2264 AI. \_\_Photo:

**Inga nobilis** ssp. *quaternata* (Poepp.) T.D. Penn.

CN: *guabito*, *guabito cansa boca*. \_\_SY: *Inga quaternata* Poepp.; *Inga roussoviana* Pittier; *Inga williamsii* Pittier \_\_HA: tree to 18 m. \_\_HB: mature and secondary forests, scrub. \_\_LO: BH: from Jeringuita to Jeringón. El Edén Plot. Banks of Río Limón. \_\_DP: . \_\_AL: 0. \_\_WD: S Mexico to N Brazil and Bolivia; Puerto Rico. \_\_US: \_\_VS: 1807 AI, 2020 AI, 2209 AI. \_\_Photo:

**Inga punctata** Willd.

CN: *guabita cansa boca*. \_\_SY: *Inga leptoloba* Schltl.; *Inga punctata* ssp. *chagrensis* Pittier; *Inga punctata* var. *panamensis* Benth. \_\_HA: tree to 16 m. \_\_HB: secondary forests, scrub. \_\_LO: BH: Playa del Sol. Punta Gorda ridge. Between El Suto and Jeringón. In the way to Río Seco headwaters. ICT: forest N of the island. N of the island. Plot 1. Between Playa Naranja and the most NW point of the island. \_\_DP: bo/ca/cc/ch/cn/da/lo/pa/sa/vr/. \_\_AL: 0. \_\_WD: Mexico to Bolivia, Cuba, Trinidad and Tobago. \_\_US: \_\_VS: 16099 SC, 16151 SC, 16426 SC, 16509 SC, 1758 AI, 1760 AI, 1957 AI, 19577 JLFA, 1994 AI, 2073 AI. \_\_Photo:

**Inga sapindoides** Willd.

**CN:** *guabo*. **\_\_SY:** *Inga pavoniana* G. Don; *Inga lindeniana* Benth. **\_\_HA:** tree to 25 m. **\_\_HB:** gaps in mature forests, secondary forests. **\_\_LO:** BH: Playa del sol. Path to the waterworks. **\_\_DP:** bo/ch/vr/ca/pa/da/sa. **\_\_AL:** 0. **\_\_WD:** S Mexico to Peru and N Venezuela. **\_\_US:** **\_\_VS:** 1785 AI. **\_\_Photo:**

**Inga sertulifera** ssp. **lectopus** (Benth.) T.D. Penn.

**CN:** **\_\_SY:** *Inga leptopus* Benth. **\_\_HA:** tree to 30 m. **\_\_HB:** mature and secondary forests. **\_\_LO:** BH: Punta Gorda ridge. **\_\_DP:** . **\_\_AL:** 0. **\_\_WD:** Costa Rica to Peru, Guyana and Brazilian Amazon. **\_\_US:** **\_\_VS:** 16464 SC. **\_\_Photo:**

**Inga spectabilis** (Vahl) Willd.

**CN:** *guabo, guaba real, guaba de castilla, machete*. **\_\_SY:** *Mimosa spectabilis* Vahl **\_\_HA:** tree to 30 m. **\_\_HB:** secondary forests. **\_\_LO:** BH: from Limón to El Edén. Playa del Sol. El Edén Plot. **\_\_DP:** bo/ca/cc/ch/cn/da/he/lo/pa/sa/. **\_\_AL:** 0. **\_\_WD:** Mexico (Oaxaca) to Ecuador. **\_\_US:** fruits are edible (Holdridge & al., 1997). **\_\_VS:** 1533 AI, 16077 SC, 1614 AI, 2207 AI. **\_\_Photo:** 247-248

**Inga thibaudiana** DC. ssp. **thibaudiana**

**CN:** **\_\_SY:** **\_\_HA:** tree to 25 m. **\_\_HB:** gaps in mature forests, secondary forests. **\_\_LO:** BH: El Edén Plot. **\_\_DP:** bo/ca/cc/cn/da/pa/sa/vr/. **\_\_AL:** 0. **\_\_WD:** S Mexico to Bolivia. **\_\_US:** **\_\_VS:** 2238 AI, 2281 AI, 2283 AI. **\_\_Photo:**

**Inga umbellifera** (Vahl) Steud.

**CN:** **\_\_SY:** *Mimosa umbellifera* Vahl; *Inga gracilipes* Standl.; *Inga lawranceana* Britton & Killip; *Inga myriantha* Poepp. **\_\_HA:** tree to 15 m. **\_\_HB:** secondary and mature forests, river banks. **\_\_LO:** BH: El Edén. From Playa Jeringuita to Playa Blanca. **\_\_DP:** ca/cn/da/pa/sa/. **\_\_AL:** 0. **\_\_WD:** Costa Rica to the Guianas, Colombia, Peru and Brazil. **\_\_US:** **\_\_VS:** 1515 AI, 1923 AI. **\_\_Photo:** 249

**Mimosa pudica** var. **unijuga** (Duchass. & Walp.) Griseb.

**CN:** *dormidera, cierra tus puertas, ciérrate, sensitiva, muigin (G), guarinig (G)*. **\_\_SY:** **\_\_HA:** herb. **\_\_HB:** open areas. **\_\_LO:** BH: between Playa del Sol and Salmonete, Río Luis area. From Limón to El Edén. **\_\_DP:** bo/ca/cc/ch/da/pa/. **\_\_AL:** 0. **\_\_WD:** Mexico to Colombia and Ecuador; tropical Africa and Madagascar. **\_\_US:** used against toothache, headache, skin infections, alopecia, arthritis, insomnia and as an emetic and tranquillizer (Zapata, 1995). Arthritis (Joly & al., 1987). **\_\_VS:** 1551 AI, 16370 SC. **\_\_Photo:** 250-251-252

**Zigia longifolia** (Humb. & Bonpl. ex Willd.) Britton & Rose

**CN:** *guabo de río (BH)*. **\_\_SY:** *Inga longifolia* Humb. & Bonpl. ex Willd.; *Pithecellobium longifolium* (Humb. & Bonpl. ex Willd.) Standl.; *Feuilleea longifolia* (Humb. & Bonpl. ex Willd.) Kuntze **\_\_HA:** tree to 15 m. **\_\_HB:** river banks. **\_\_LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. Between Playa del Sol and Salmonete, Río Luis area. **\_\_DP:** bo/ca/cc/cn/da/pa/. **\_\_AL:** 0. **\_\_WD:** SE Mexico to South America (Amazonia). **\_\_US:** **\_\_VS:** 1595 AI, 1611 AI, 16377 SC. **\_\_Photo:**

FABACEAE-PAPILIONOIDEAE

**Aeschynomene americana** L.

**CN:** *pega-pega*. **\_\_SY:** **\_\_HA:** herb. **\_\_HB:** open areas. **\_\_LO:** ICT: path close to the Lab. **\_\_DP:** bo/ca/cc/ch/cn/da/he/lo/pa/vr/. **\_\_AL:** 0. **\_\_WD:** United States (Florida) to Argentina and the Antilles; introduced in Asia and Africa. **\_\_US:** **\_\_VS:** 1345 Al. **\_\_Photo:** 253

**Andira inermis** (W. Wright) Kunth ex DC.

**CN:** *almendro de río, harino, amargo, cocú, cabbage bark*. **\_\_SY:** *Geoffroea inermis* (W. Wright) W. Wright; *Geoffroea jamaicensis* var. *inermis* W. Wright; *Vauacapoua inermis* (W. Wright) A. Lyons **\_\_HA:** tree to 30 m. **\_\_HB:** open areas, humid places. **\_\_LO:** BH:Punta Gorda ridge. Salmonete plains. ICT: from the Train Station to JP's house on the railway track. **\_\_DP:** bo/ca/cc/ch/da/he/pa/vr/. **\_\_AL:** 0. **\_\_WD:** widely distributed in tropical America and Africa. **\_\_US:** ornamental, timber used for furniture and handicrafts (Little & Wadsworth, 1964). **\_\_VS:** 16516 SC, 2031 Al, 1880 Al, 1881 Al. **\_\_Photo:** 254

**Cajanus cajan** (L.) Millsp.

**CN:** *guandú, frijol de palo, pigeon pea*. **\_\_SY:** *Cajanus bicolor* DC.; *Cytisus cajan* L.; *C. indicus* Spreng. **\_\_HA:** shrub. **\_\_HB:** cultivated. **\_\_LO:** BH: El Edén. **\_\_DP:** bo/ca/cc/ch/cn/da/pa/. **\_\_AL:** 0. **\_\_WD:** native to India; widely cultivated and naturalized in the world tropics and subtropics. **\_\_US:** green or dry seeds are eaten (León & Poveda, 2000). **\_\_VS:** 2182 Al. **\_\_Photo:**

**Calopogonium mucunoides** Desv.

**CN:** *guisante azul, guisante violeta*. **\_\_SY:** *Calopogonium brachycarpum* (Benth.) Benth. ex Hemsl.; *Calopogonium orthocarpum* Urb.; *Stenolobium brachycarpum* Benth.; *Calopogonium flavidum* Brandegee **\_\_HA:** herb. **\_\_HB:** scrub. **\_\_LO:** BH: from Limón to El Edén. **\_\_DP:** bo/ca/cc/ch/cn/he/lo/pa/vr/. **\_\_AL:** 0. **\_\_WD:** S Mexico to N South America and the Antilles. **\_\_US:** **\_\_VS:** 1545 Al. **\_\_Photo:** 255

**Canavalia rosea** (Sw.) DC.

**CN:** *bejuco de playa*. **\_\_SY:** *Dolichos roseus* Sw.; *Dolichos obtusifolius* Lam.; *Canavalia maritima* Thouars; *Canavalia obtusifolia* DC. **\_\_HA:** vine. **\_\_HB:** beaches. **\_\_LO:** BH: Manglarito. **\_\_DP:** bo/ca/ch/cn/lo/pa/sa/. **\_\_AL:** 0. **\_\_WD:** tropical beaches of the world. **\_\_US:** **\_\_VS:** 16308 SC, 1638 Al. **\_\_Photo:** 256

**Canavalia villosa** Benth.

**CN:** **\_\_SY:** *Canavalia hirsuta* (M. Martens & Galeotti) Standl.; *Canavalia pilosa* (M. Martens & Galeotti) Donn. Sm.; *Wenderothia villosa* (Benth.) Piper **\_\_HA:** vine. **\_\_HB:** scrub. **\_\_LO:** BH: Playa del sol. Path to the waterworks. **\_\_DP:** cc/ch/he/lo/pa/vr/. **\_\_AL:** 0/1. **\_\_WD:** Mexico to Ecuador. **\_\_US:** **\_\_VS:** 1776 Al. **\_\_Photo:**

**Centrosema virginianum** (L.) Benth.

**CN:** **\_\_SY:** *Clitoria virginiana* L. **\_\_HA:** vine. **\_\_HB:** open areas. **\_\_LO:** BH: El Edén. **\_\_DP:** . **\_\_AL:** 0. **\_\_WD:** United States to South America and the Antilles; introduced in Africa, SE Asia and Australia. **\_\_US:** **\_\_VS:** 1471 Al. **\_\_Photo:** 257-258



**Clitoria javitensis** var. **portobellensis** (Beurl.) Fantz

**CN:** *bejuco paterno* (BH), *peronil*. **SY:** *Neurocarpum javitense* Kunth; *Clitoria portobellensis* Beurl. **HA:** vine. **HB:** secondary forests, scrub. **LO:** BH: Lerencito. ICT: path close to the Lab. Close to JP's house. From Naranjo Amargo to Playa de los Luchos. **DP:** ca/ch/cn/da/pa/. **AL:** 0. **WD:** Costa Rica, Panama and Venezuela. **US:** used to tie things together (BH). **VS:** 1360 AI, 1371 AI, 1572 AI, 1661 AI. **Photo:** 259-260-261

**Dalbergia brownei** (Jacq.) Schinz

**CN:** *bejuco frijolillo*. **SY:** *Amerimnon brownei* Jacq.; *Dalbergia amerimnum* Benth. **HA:** shrub. **HB:** beaches. **LO:** BH: Playa del Sol. Surroundings of Playa Limón. **DP:** bo/ca/cn/da/lo/pa/sa/vr/. **AL:** 0. **WD:** United States (Florida), Mexico, Central America, N South America and the Antilles. **US:** **VS:** 16304 SC, 1962 AI. **Photo:**

**Dalbergia monetaria** L. f.

**CN:** **SY:** **HA:** vine. **HB:** secondary forests. **LO:** ICT: between Playa Naranjo and the most NW point of the island. **DP:** ca/cn/. **AL:** 0. **WD:** Central American Atlantic coast, N South America and the Antilles. **US:** **VS:** 16094 SC. **Photo:**

**Desmodium adscendens** (Sw.) DC.

**CN:** *pega-pega*. **SY:** *Hedysarum adscendens* Sw. **HA:** herb. **HB:** open areas. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. **DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/vr/. **AL:** 0/1. **WD:** Mexico to N South America and the Antilles. **US:** **VS:** 1612 AI. **Photo:**

**Desmodium axillare** (Sw.) DC.

**CN:** **SY:** *Hedysarum axillare* Sw. **HA:** herb. **HB:** open areas. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** bo/ca/cc/ch/da/he/lo/pa/. **AL:** 0. **WD:** S Mexico to Bolivia and Brazil; the Antilles. **US:** **VS:** 16350 SC. **Photo:**

**Dioclea reflexa** Hook. f.

**CN:** **SY:** **HA:** liana. **HB:** scrub. **LO:** ICT: path from Playa de los Luchos to N of the island. **DP:** bo/ca/cc/ch/cn/da/pa/sa/. **AL:** 0. **WD:** pantropical. **US:** **VS:** 1432 AI. **Photo:** 265

**Diphysa americana** (Mill.) M. Sousa

**CN:** *macano* (BH), *cacique*, *macano blanco*. **SY:** *Colutea americana* Mill.; *Diphysa robinoides* Benth. **HA:** tree to 15 m. **HB:** open areas, cultivated. **LO:** BH: Playa del Sol. Surroundings of Playa Limón. ICT: Playa de los Luchos. **DP:** ca/cc/ch/da/he/lo/pa/sa/vr/. **AL:** 0/1. **WD:** Mexico to Panama. **US:** used as beams in mud houses, in living fences and firewood (Santana, 1998). Rheumatic pains and swellings (Gupta, 1995; Zapata, 1995). Living fences (BH). **VS:** 1385 AI, 16277 SC, 1697 AI, 1937 AI. **Photo:** 266-267

**Erythrina berteroa** Urb.

**CN:** *gallito, pito, vara santa, palo santo*. **SY:** **HA:** tree to 10 m. **HB:** open areas. **LO:** BH: surroundings of Salmonete. El Edén. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/sa/. **AL:** 0/1. **WD:** Mexico to Peru and the Antilles. **US:** bark and leaves decoction used as an antispasmodic (Zapata, 1995). **VS:** 1472 AI, 16540 SC. **Photo:** 268-269-270-271

**Erythrina fusca** Lour.

**CN:** *pito (BH), palo bobo, palo santo, gallito, machetipito*. **SY:** *Erythrina glauca* Willd. **HA:** tree to 20 m. **HB:** coastal fringe, open areas. **LO:** BH: surroundings of Playa Limón. Playa Blanca. ICT: Playa de los Luchos. **DP:** bo/ca/cc/ch/cn/da/pa/. **AL:** 0. **WD:** Guatemala to Bolivia; Asia tropical and Oceania. **US:** used for shading coffee and cocoa trees; also as living fence (Little & Wadsworth, 1964). Living fences (BH). **VS:** 16254 SC, 1687 AI, 1901 AI. **Photo:** 272-273

**Lonchocarpus chiricanus** Pittier

**CN:** *chaperno (BH)*. **SY:** **HA:** tree to 8 m. **HB:** coastal fringe. **LO:** BH: between El Suto and Jeringón. From Playa Jeringuita to Playa Blanca. ICT: Playa de los Luchos. Between Playa Naranja and the most NW point of the island. **DP:** ch/vr. **AL:** 0. **WD:** Panama. **US:** wood used to build keels for large boats (BH). **VS:** 1395 AI, 16117 SC, 16431 SC, 1916 AI. **Photo:** 274

**Lonchocarpus heptaphyllus** (Poir.) DC.

**CN:** *gallito*. **SY:** *Lonchocarpus pentaphyllus* (Poir.) Kunth ex DC.; *Dalbergia heptaphylla* Poir.; *Dalbergia pentaphylla* Poir. **HA:** tree to 15 m. **HB:** coastal forests. **LO:** BH: Playa del Sol. Playa Limón. ICT: Plot 1. **DP:** bo/ca/cc/cn/pa/sa/vr/. **AL:** 0. **WD:** Mexico to N South America and the Antilles. **US:** **VS:** 1985 AI, 16140 SC, 16527 SC, 1722 AI. **Photo:**

**Machaerium isadelphum** (E. Mey.) Amshoff

**CN:** **SY:** *Drepanocarpus isadelphus* E. Mey.; *Machaerium costaricanum* Pittier; *Machaerium microphyllum* (E. Mey.) Standl. *sensu Flora de BCI* (Croat, 1977); *Machaerium setulosum* Pittier; *Machaerium marginatum* Standl. **HA:** vine or shrub. **HB:** scrub. **LO:** BH: Playa del Sol. Path to Salmonete. ICT: path from Playa de los Luchos to N of the island. Close to JP's house. **DP:** ca/ch/cn/da/he/pa/sa/vr/. **AL:** 0. **WD:** Mexico to Colombia, Bolivia, Peru and Brazil. **US:** **VS:** 1354 AI, 1437 AI, 1938 AI. **Photo:** 275-276 (AE)-277-278

**Machaerium kegelii** Meisn.

**CN:** **SY:** *Machaerium pachyphyllum* Pittier **HA:** vine or shrub. **HB:** scrub. **LO:** BH: Playa de Juana. ICT: path from Playa de los Luchos to N of the island. **DP:** ca/cc/pa/vr/. **AL:** 0. **WD:** Mexico to the Guianas, Peru, Bolivia and Brazil. **US:** **VS:** 1424 AI, 16061 SC, 1843 AI. **Photo:** 279-280-281

**Machaerium milleflorum** Pittier

**CN:** *bejuco sangro*. **SY:** *Machaerium purpurascens* Pittier **HA:** vine or shrub. **HB:** scrub. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** ca/cc/cn/da/pa/. **AL:** 0. **WD:** Costa Rica and Panama. **US:** **VS:** 16393 SC. **Photo:**

**Machaerium seemannii** Benth. in Seem.

**CN:** \_\_ **SY:** \_\_ **HA:** vine or shrub. **HB:** scrub. **LO:** BH: Playa del Sol. Salmonete plains. **DP:** ca/cc/ch/ch/cn/da/pa/. **AL:** 0. **WD:** S Mexico to Colombia and Venezuela. **US:** \_\_ **VS:** 1941 AI, 2030 AI. **Photo:**

**Mucuna mutisiana** (Kunth) DC.

**CN:** *pica-pica*, *ojo de venado*. **SY:** *Negretia mutisiana* Kunth **HA:** vine. **HB:** scrub. **LO:** ICT: close to JP's house. **DP:** bo/ca/cc/da/lo/pa/sa/. **AL:** 0. **WD:** Costa Rica, Panama, Colombia and Venezuela. **US:** a black dye is obtained from the leaves. Seeds used for necklaces, ornaments and carvings (Santana, 1998). **VS:** 2343 AI. **Photo:** 282-283-284 (MAG)

**Muellera moniliformis** L. f.

**CN:** \_\_ **SY:** \_\_ **HA:** shrub. **HB:** mangrove edge. **LO:** BH: Punta Gorda ridge. El Edén. **DP:** bo/ca/da/. **AL:** 0. **WD:** Panama to South America and Trinidad and Tobago. **US:** \_\_ **VS:** 16513 SC, 2275 AI. **Photo:**

**Ormosia coccinea** var. **subsimplex** (Spruce ex Benth.) Rudd

**CN:** *pernillo de monte*. **SY:** *Ormosia subsimplex* Spruce ex Benth. **HA:** tree to 30 m. **HB:** mature forests, coastal forests. **LO:** BH: El Edén Plot. Punta Gorda ridge. ICT: from Naranjo Amargo to Playa de los Luchos. **DP:** ca/sa/vr/. **AL:** 0. **WD:** Nicaragua to Panama, Colombia, Venezuela and Brazil. **US:** \_\_ **VS:** 1566 AI, 1583 AI, 16466 SC, 2170 AI. **Photo:**

**Platymiscium pinnatum** (Jacq.) Dugand

**CN:** *quirá* (BH), *sangrillo*, *venícola*, *redwood*. **SY:** *Platymiscium polystachyum* Benth.; *Platymiscium dubium* Pittier; *Platymiscium pinnatum* (Jacq.) Dugand *sensu Flora BCI* (Croat, 1977). **HA:** tree to 30 m. **HB:** secondary forests, coastal forests. **LO:** BH: Playa del Sol. ICT: "Sangrillal" edge at Playa del Laboratorio. Playa del Guabo. Peninsula S of the island. Path from Playa de los Luchos to N of the island. **DP:** ca/cc/ch/da/pa/. **AL:** 0. **WD:** Costa Rica to Bolivia. **US:** timber yielding species (Vozzo, 2002) **VS:** 1410 AI, 1708 AI, 1711 AI, 1713 AI, 1947 AI. **Photo:** 285 (AE)

**Platypodium elegans** Vogel

**CN:** *carcuera* (BH), *canalúa*, *canela*, *caneleto*, *tigre*. **SY:** *Platypodium elegans* var. *major* Benth.; *Platypodium maxonianum* Pittier; *Platypodium viride* Vogel **HA:** tree to 35 m. **HB:** mature and secondary forests, coastal forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. ICT: between Playa Naranjo and the most NW point of the island. Playa del Laboratorio. **DP:** ca/ch/da/pa/. **AL:** 0. **WD:** Panama to Bolivia and Paraguay. **US:** firewood (BH). **VS:** 16050 SC, 16082 SC, 1610 AI, 16340 SC, 1789 AI. **Photo:** 286

**Pterocarpus officinalis** Jacq. ssp. **officinalis**

**CN:** *sangrillo* (BH), *chuela*, *cricamola*, *sangre de drago*, *kaway*, *sangre*, *bloodwood* **SY:** *Moutouchi suberosa* Aubl.; *Pterocarpus suberosus* (Aubl.) Pers. **HA:** tree to 30 m. **HB:** swamps or waterlogged areas. **LO:** BH: Playa del Sol. ICT: N of the

island. \_\_\_DP: bo/ca/cn/da/pa/. \_\_\_AL: 0. \_\_\_WD: Belize to Venezuela and Brazil; the Antilles and Pacific coast to Ecuador. \_\_\_US: wood used for interior constructions, simple joinings, floats for fishing nets and cheap furniture (Little & Wadsworth, 1964). \_\_\_VS: 16150 SC, 16153 SC, 1887 AI. \_\_\_Photo: 287-288-289

**Pueraria phaseoloides** (Roxb.) Benth.

CN: \_\_\_SY: *Dolichos phaseoloides* Roxb. \_\_\_HA: vine. \_\_\_HB: scrub. \_\_\_LO: ICT: close to the big *Ceiba with the flag*. \_\_\_DP: ch/da/. \_\_\_AL: 0. \_\_\_WD: native to Asia, introduced in Africa and the Neotropics. \_\_\_US: \_\_\_VS: 1358 AI. \_\_\_Photo: 290

**Swartzia simplex** var. **continentalis** Urb.

CN: *naranja* (BH). \_\_\_SY: *Swartzia macrosperma* Bertol.; *Swartzia ochracea* DC.; *Swartzia simplex* var. *ochracea* (DC.) R.S. Cowan; *Touateia gatunensis* Britton; *Touateia hayesii* Britton; *Touateia penomenensis* Britton; *Touateia ochracea* (DC.) Britton; *Touateia macrosperma* (Bertol.) Britton & Rose; *Touateia costaricensis* Britton; *Touateia hondurensis* Britton; *Touateia pittieri* Britton; *Touateia williamsii* Britton \_\_\_HA: tree to 35 m. \_\_\_HB: mature and secondary forests, coastal forests. \_\_\_LO: BH: El Edén Plot. Río Limón. ICT: Close to JP's house. Plot 1. N of the island. Playa de los Luchos. \_\_\_DP: bo/ca/ch/da/pa/. \_\_\_AL: 0. \_\_\_WD: W Mexico to S Brazil. \_\_\_US: \_\_\_VS: 16039 SC, 16168 SC, 1724 AI, 1761 AI, 1867 AI, 1964 AI, 2274 AI, 1369 AI, 1380 AI. \_\_\_Photo: 291-292

**Vigna adenantha** (G. Mey.) Maréchal, Mascherpa & Stainier

CN: \_\_\_SY: *Phaseolus adenanthus* G. Mey.; *Phaseolus adenanthus* var. *radicans* (Benth.) Hassl.; *Phaseolus cirrosus* Kunth; *Phaseolus truxillensis* Kunth; *Phaseolus cuernavacanus* Rose; *Phaseolus occidentalis* Rose; *Phaseolus adenanthus* var. *caeduorus* (Mart. ex Benth.) Hassl.; *Phaseolus gentryi* Standl.; *Vigna gentryi* (Standl.) Stainier & F. Horvat. \_\_\_HA: vine. \_\_\_HB: coastal fringe. \_\_\_LO: ICT: Playa de los Luchos. \_\_\_DP: bo/ca/cc/ch/da/he/lo/pa/. \_\_\_AL: 0. \_\_\_WD: Mexico to South America, introduced in the Old World. \_\_\_US: \_\_\_VS: 1390 AI. \_\_\_Photo: 293

FLACOURTIACEAE

**Banara guianensis** Aubl.

CN: *pica lengua*. \_\_\_SY: \_\_\_HA: tree to 15 m. \_\_\_HB: scrub. \_\_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. ICT: path from Playa del Laboratorio to the Lab. \_\_\_DP: bo/ca/cc/ch/cn/lo/pa/vr/. \_\_\_AL: 0. \_\_\_WD: Nicaragua to Bolivia and Brazil. \_\_\_US: used for roof construction and firewood (Little & Wadsworth, 1964). \_\_\_VS: 16032 SC, 16396 SC. \_\_\_Photo:

**Casearia commersoniana** Cambess.

CN: *cafetillo* (BH), *berbá*, *mauro*, *coloraito*. \_\_\_SY: *Casearia javitensis* var. *myriantha* (Turcz.) L.O. Williams \_\_\_HA: shrub or tree to 15 m. \_\_\_HB: scrub, secondary forests. \_\_\_LO: ICT: path from JP's house to Playa del Laboratorio. Plot 1. Path from the big *Ceiba with the flag* to the Lab. Forest N of the island. \_\_\_DP: bo/ca/ch/cn/da/lo/pa/sa/. \_\_\_AL: 0. \_\_\_WD: Mexico to Peru and Brazil. \_\_\_US: \_\_\_VS: 1452 AI, 1501 AI, 1707 AI, 1709 AI, 1784 AI, 1869 AI. \_\_\_Photo: 294-295

**Casearia guianensis** (Aubl.) Urb.

**CN:** *palo de cruz, coloraito*. **SY:** *Iroucana guianensis* Aubl. **HA:** shrub. **HB:** scrub. **LO:** BH: Playa del Sol. **DP:** bo/ca/cn/da/he/pa/vr/. **AL:** 0. **WD:** S Costa Rica, Panama, South America and the Antilles. **US:** used for roof construction and firewood (Little & Wadsworth, 1964). **VS:** 1950 AI. **Photo:** 296 (AE)

**Casearia sylvestris** Sw. var. **sylvestris**

**CN:** *corta lengua, palo de cruz, raspa lengua, coloraito*. **SY:** **HA:** shrub. **HB:** scrub. **LO:** BH: from Playa Jeringuita to Playa Blanca. ICT: Close to JP's house. **DP:** bo/ca/cc/ch/cn/da/pa/sa/vr/. **AL:** 0. **WD:** Belize to Bolivia. **US:** in Colombia, leaves and shoots decoction is used to treat skin ulcers and other disorders (Gupta, 1995). Used for roof construction and firewood (Little & Wadsworth, 1964). **VS:** 1689 AI, 1920 AI. **Photo:**

**Lacistema aggregatum** (P.J. Bergius) Rusby

**CN:** *querolé (BH), palito nebuloso*. **SY:** *Piper aggregatum* P.J. Bergius **HA:** tree to 15 m. **HB:** mature and secondary forests, scrub. **LO:** BH: El Edén Plot. ICT: path from Playa de los Luchos to N of the island. Close to the Lab. Plot 1. Train Station. Playa de los Luchos. **DP:** bo/ca/cc/cn/da/he/lo/pa/vr/. **AL:** 0. **WD:** Mexico to Brazil and Argentina; the Antilles. **US:** firewood and posts (BH). **VS:** 2272 AI, 1396 AI, 1403 AI, 1698 AI, 1738 AI, 1741 AI, 1780 AI, 2213 AI. **Photo:**

**Lozania pittieri** (S.F. Blake) L.B. Sm.

**CN:** **SY:** *Lacistema pedicellatum* Standl.; *Lacistema pittieri* S.F. Blake; *Lozania pedicellata* (Standl.) L.B. Sm. **HA:** shrub or tree to 10 m. **HB:** secondary forests. **LO:** BH: surroundings of Playa Limón. El Edén Plot. **DP:** bo/ca/cn/pa/sa/vr/. **AL:** 0/1. **WD:** Nicaragua to Colombia and Venezuela. **US:** **VS:** 16261 SC, 16287 SC, 2216 AI. **Photo:**

**Xylosma chlorantha** Donn. Sm.

**CN:** **SY:** **HA:** shrub or tree to 6 m. **HB:** scrub. **LO:** BH: Playa del Sol. Path to Salmonete. **DP:** ca/ch/cn/. **AL:** 0/1. **WD:** Belize to Panama. **US:** **VS:** 16328 SC, 1948 AI. **Photo:**

GENTIANACEAE

**Chelonanthus alatus** (Aubl.) Pulle

**CN:** *árbol de mal casada, hierba de Adán*. **SY:** *Lisianthus alatus* Aubl.; *Iribachia alata* (Aubl.) Maas. **HA:** herb. **HB:** scrub. **LO:** ICT: Playa de los Luchos. **DP:** ca/cc/ch/cn/da/pa/. **AL:** 0/1. **WD:** S Mexico to N South America. **US:** **VS:** 1393 AI. **Photo:** 297-298

**Coutoubea spicata** Aubl.

**CN:** **SY:** **HA:** herb. **HB:** scrub. **LO:** ICT: close to JP's house. **DP:** ca/he/pa/sa/vr/. **AL:** 0. **WD:** S Mexico to N South America. **US:** **VS:** 1373 AI. **Photo:** 299

**Lisianthus seemannii** (Griseb.) Kuntze

**CN:** \_\_ **SY:** *Leianthus seemannii* Griseb. **HA:** herb. **HB:** scrub. **LO:** ICT: path close to the Lab. **DP:** cc/ch/da/he/vr/. **AL:** 0. **WD:** Costa Rica to Colombia. **US:** \_\_ **VS:** 1343 Al. **Photo:** 300

**Schultesia lisianthoides** (Griseb.) Benth. & Hook. f. ex Hemsl.

**CN:** *canchalagua, sulfatillo*. **SY:** *Xestaea lisianthoides* Griseb.; *Schultesia peckiana* B.L. Rob. **HA:** herb. **HB:** scrub. **LO:** BH: from Playa del Sol to El Edén. From "Cativo Forest" near Río Luis to Playa del Sol. **DP:** ca/cc/ch/cn/da/he/lo/ pa/vr/. **AL:** 0. **WD:** S Mexico to South America and the Antilles. **US:** used against fever, inflammated bladder, skin diseases, rheumatism, first states of pneumonia, to purify the blood, sex transmitted infections, hair loss, intestinal worms, promotes sweating and is emmenagogue (Zapata, 1995). Respiratory problems (Joly & al., 1987). **VS:** 1594 Al, 1672 Al. **Photo:** 301-302

**Voyria** sp.

**CN:** \_\_ **SY:** \_\_ **HA:** saprophytic herb. **HB:** mature and secondary forests, scrub. **LO:** BH: El Edén Plot. Punta Gorda ridge. ICT: N of the island. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 16201 SC, 16463 SC, 2247 Al. **Photo:** \_\_

#### GESNERIACEAE

**Besleria laxiflora** Benth.

**CN:** \_\_ **SY:** \_\_ **HA:** shrub. **HB:** secondary and mature forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. El Edén Plot. **DP:** bo/ca/cc/ch/da/pa/. **AL:** 0/1. **WD:** Mexico to Brazil, Peru and the Guianas. **US:** \_\_ **VS:** 16389b SC, 2156 Al. **Photo:** \_\_

**Chrysothemis pulchella** (Donn ex Sims) Decne.

**CN:** *siria, pinguak kinnid (K)* **SY:** *Besleria pulchella* Donn ex Sims **HA:** herb. **HB:** open areas, coastal fringe. **LO:** ICT: Playa de los Luchos. **DP:** bo/ca/ch/cn/da/lo/pa/sa/vr/. **AL:** 0. **WD:** Nicaragua, Panama to Brazil and the Antilles. **US:** it helps widening the birth channel (Gupta & al., 1993). **VS:** 1383 Al, 16024 SC. **Photo:** 303-304

**Drymonia** sp.1

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** coastal fringe. **LO:** BH: Playa del Sol. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 2133 Al. **Photo:** \_\_

**Kohleria spicata** (Kunth) Oerst.

**CN:** \_\_ **SY:** *Gesneria spicata* Kunth **HA:** herb. **HB:** coastal fringe. **LO:** ICT: Playa de los Luchos. **DP:** bo/cc/ch/vr/. **AL:** 0/1. **WD:** S Mexico to N South America. **US:** \_\_ **VS:** 1378 Al. **Photo:** 305-306

#### HAEMODORACEAE

**Xiphidium caeruleum** Aubl.

**CN:** *palmita, mano de Dios, espadaña, cola de paloma, espadiña, palma del norte* **SY:** \_\_ **HA:** herb. **HB:** secondary forests, humid places. **LO:** BH: between Playa

del Sol and Salmonete, Río Luis area. **DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/vr/. **AL:** 0/1.  
**WD:** tropical America. **US:** anti-inflammatory, hair loss, antifungal, throat infections  
and to treat asthma (Zapata, 1995). Women problems (Herrera, 1991). Prevents  
vomiting, skin antiseptic (Joly & *al.*, 1987)  
**VS:** 16320 SC. **Photo:**

#### HELICONIACEAE

**Heliconia colgantea** R.R. Sm. ex G.S. Daniels & F.G. Stiles

**CN:** **SY:** **HA:** herb. **HB:** scrub. **LO:** ICT: top of the island. **DP:** ch/da/pa/.  
**AL:** 0. **WD:** Costa Rica and Panama. **US:** **VS:** 16072 SC. **Photo:**

**Heliconia imbricata** (Kuntze) Baker

**CN:** **SY:** *Bihai imbricata* Kuntze; *Heliconia densa* (Griggs) L.B. Sm. **HA:** herb.  
**HB:** secondary forests, scrub. **LO:** BH: El Edén Plot. **DP:** bo/ca/cc/ch/cn/da/.  
**AL:** 0. **WD:** Costa Rica to Colombia. **US:** **VS:** 2161 Al. **Photo:**

**Heliconia latispatha** Benth.

**CN:** *chichica* (BH), *platanillo*, *guacamaya*. **SY:** *Bihai latispatha* (Benth.) Griggs  
**HA:** herb. **HB:** scrub. **LO:** ICT: top of the island. **DP:**  
bo/ca/cc/ch/cn/da/pa/sa/. **AL:** 0. **WD:** Mexico to NW South America. **US:** **VS:**  
16067 SC. **Photo:** 308-309-310-311

**Heliconia latispatha x imbricata**

**CN:** **SY:** **HA:** herb. **HB:** scrub, open areas. **LO:** BH: El Edén. **DP:** . **AL:**  
0. **WD:** Hybrid between *Heliconia lathispatha* and *Heliconia imbricata*; common in  
SW Costa Rica. **US:** **VS:** 1553 Al. **Photo:** 307

**Heliconia metallica** Planch. & Linden ex Hook.

**CN:** **SY:** *Bihai metallica* (Planch. & Linden ex Hook.) Kuntze; *Heliconia nana* G.  
Rodr. **HA:** herb. **HB:** forests, humid places. **LO:** BH: Banks of Río Seco. **DP:**  
ca/cc/cn/da/pa/pa/. **AL:** 0. **WD:** Nicaragua to NW South America. **US:** **VS:**  
2033 Al. **Photo:**

**Heliconia platystachys** Baker

**CN:** **SY:** *Heliconia catheta* R.R. Sm. **HA:** herb. **HB:** open areas, scrub. **LO:**  
BH: El Edén. From Playa Jeringuita to Playa Blanca. **DP:** ca/cc/ch/cn/da/lo/pa/sa/.  
**AL:** 0. **WD:** Costa Rica to Colombia and Venezuela. **US:** **VS:** 1931 Al, 2151  
Al. **Photo:** 312-313-314 (AE)

**Heliconia wagneriana** Petersen

**CN:** **SY:** *Heliconia elongata* Griggs; *Bihai elongata* (Griggs) Griggs; *Bihai*  
*wagneriana* (Petersen) Kuntz e **HA:** herb. **HB:** scrub. **LO:** BH: El Edén. **DP:**  
bo/ca/cc/ch/cn/da/sa/. **AL:** 0. **WD:** Guatemala to Colombia. **US:** **VS:** 1483 Al.  
**Photo:** 315-316-317

#### HIPPOCRATEACEAE

**Salacia sp.1**

**CN:** \_\_ **SY:** \_\_ **HA:** liana or shrub. **HB:** forests. **LO:** BH: Playa del Sol. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 16313 SC. **Photo:** \_\_

**LAMIACEAE**

**Hyptis capitata** Jacq.

**CN:** *suspiro de monte, gallito*. **SY:** *Mesosphaerum capitatum* (Jacq.) Kuntze **HA:** herb. **HB:** scrub. **LO:** ICT: close to JP's house. **DP:** bo/ca/cc/cn/ch/da/he/lo/vr/sa. **AL:** 0. **WD:** from Mexico to Venezuela and Peru; also in the Antilles. **US:** \_\_ **VS:** 1367 AI. **Photo:** 319

**Hyptis mutabilis** (Rich.) Briq.

**CN:** \_\_ **SY:** *Nepeta mutabilis* Rich. **HA:** herb. **HB:** scrub. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. **DP:** ca/cc/ch/da/he/lo/pa/vr/. **AL:** 0. **WD:** S United States to South America and the Antilles, it may be native to Brazil. **US:** \_\_ **VS:** 1596 AI. **Photo:** 320-321

**Hyptis verticillata** Jacq.

**CN:** *San Juanillo, lechuguilla, paleca*. **SY:** \_\_ **HA:** herb. **HB:** open areas. **LO:** BH: Managua Island. Río Limón. **DP:** \_\_ **AL:** 0. **WD:** Mexico to Ecuador and the Antilles. **US:** stomach-ache and indigestion (Gupta, 1995). Tea made from the fruits is said to cool fever, also used in cases of toothache, asthma, childbirth pains and as protection from spirits (Stevens & al., 2001). **VS:** 16241 SC, 1969 AI. **Photo:** \_\_

**Ocimum campechianum** Mill.

**CN:** *albahaca, albahaca de vaca*. **SY:** *Ocimum micranthum* Willd. **HA:** herb. **HB:** open areas. **LO:** BH: Managua Island. **DP:** bo/ca/da/he/lo/pa/sa/. **AL:** 0. **WD:** S United States to Argentina and the Antilles. **US:** stomach-ache, colds, bronchitis and pneumonia (Gupta, 1995; Zapata, 1995). Used for cooking and as medicine (Stevens & al., 2001). **VS:** 16247 SC. **Photo:** \_\_

**Ocimum sanctum** L.

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** open areas. **LO:** BH: Managua Island. **DP:** \_\_ **AL:** 0. **WD:** native to India and S Asia; cultivated in America. **US:** used in cases of influenza, to cool fever, headaches, stomach-aches and as hypoglycaemic (Gupta, 1995). **VS:** 16245 SC. **Photo:** \_\_

**Salvia lasiocephala** Hook. & Arn.

**CN:** \_\_ **SY:** *Salvia hyptoides* M. Martens & Galeotti **HA:** herb. **HB:** scrub. **LO:** BH: path from Playa del Sol to Lerencito. From "Cativo Forest" near Río Luis to Playa del Sol. **DP:** ca/ch/da/he/lo/pa/sa/. **AL:** 0/1. **WD:** Mexico to Panama, Colombia and Venezuela. **US:** \_\_ **VS:** 1593 AI, 1679 AI. **Photo:** 322-323

**Salvia occidentalis** Sw.

**CN:** *cansa-perro, corrimiento, hierba buena, salvia de monte*. **SY:** \_\_ **HA:** herb. **HB:** scrub. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. El Edén.



\_\_DP: ca/cc/ch/cn/da/he/lo/pa/vr/. \_\_AL: 0. \_\_WD: Mexico to Peru and the Antilles.  
\_\_US: decoction of leaves is used as an antispasmodic (Zapata, 1995). Treatment of  
headaches (D'Arcy & Correa, 1985). \_\_VS: 1482 AI, 1599 AI. \_\_Photo: 324-325

## LAURACEAE

**Cinnamomum triplinerve** (Ruiz & Pav.) Kosterm.

CN: \_\_SY: *Laurus triplinervis* Ruiz & Pav.; *Cinnamomum cinnamomifolium* (Kunth)  
Kosterm.; *Cinnamomum mexicanum* (Meisn.) Kosterm. \_\_HA: tree to 20 m. \_\_HB:  
secondary forests. \_\_LO: ICT: N of the island. \_\_DP: ca/cc/ch/da/he/pa/vr/. \_\_AL:  
0/1/2. \_\_WD: Mexico to Panama and South America. \_\_US: \_\_VS: 16049 SC, 16183  
SC. \_\_Photo:

**Licaria excelsa** Kosterm.

CN: \_\_SY: \_\_HA: tree to 20 m. \_\_HB: mature and secondary forests, scrub. \_\_LO: BH:  
Río Seco headwaters. \_\_DP: ch/da/pa/sa/. \_\_AL: 0/1. \_\_WD: Mexico (Oaxaca), Costa  
Rica and Panama. \_\_US: \_\_VS: 2091 AI, 2093 AI. \_\_Photo:

**Nectandra cuspidata** Nees & Mart.

CN: *sigua canelo*. \_\_SY: *Nectandra gentlei* Lundell \_\_HA: shrub or tree to 30 m. \_\_HB:  
scrub. \_\_LO: ICT: N of the island. Path from Playa de los Luchos to N of the island.  
\_\_DP: ca/cc/ch/cn/da/pa/. \_\_AL: 0/1. \_\_WD: S Mexico to S Brazil and Paraguay.  
\_\_US: \_\_VS: 1447 AI, 16165 SC. \_\_Photo: 326

**Nectandra lineata** (Kunth) Rohwer

CN: *sigua blanco*, *sigua negro*, *sigua*. \_\_SY: *Ocotea lineata* Kunth \_\_HA: tree to 20 m.  
\_\_HB: mature and secondary forests, river banks. \_\_LO: BH: from "Cativo Forest" near  
Río Luis to Playa del Sol. Banks of Río Limón. ICT: Plot 1. \_\_DP:  
bo/ch/cc/ca/cn/da/pa/sa/. \_\_AL: 0. \_\_WD: Guatemala to Peru. \_\_US: \_\_VS: 1626 AI,  
1749 AI, 1757 AI, 1808 AI. \_\_Photo: 327-328

**Nectandra ramonensis** Standl.

CN: \_\_SY: \_\_HA: tree to 20 m. \_\_HB: secondary forests. \_\_LO: BH: Playa del Sol.  
\_\_DP: ch/cc/he/lo/. \_\_AL: 0/1. \_\_WD: Costa Rica and Panama. \_\_US: \_\_VS: 1955 AI.  
\_\_Photo:

**Nectandra turbacensis** (Kunth) Nees

CN: *sigua*. \_\_SY: *Ocotea turbacensis* Kunth \_\_HA: tree to 20 m. \_\_HB: secondary  
forests. \_\_LO: ICT: N of the island. \_\_DP: ch/ca/pa/da/. \_\_AL: 0. \_\_WD: Belize and  
Guatemala to Bolivia and the Caribbean. \_\_US: \_\_VS: 16158 SC. \_\_Photo:

**Ocotea aurantiadora** (Ruiz & Pav.) Mez

CN: \_\_SY: *Laurus aurantiadora* Ruiz & Pav.; *Mespilodaphne aurantiadora* (Ruiz &  
Pav.) Meisn. \_\_HA: tree to 15 m. \_\_HB: gaps in mature forests, secondary forests.  
\_\_LO: BH: surroundings of Playa Limón. Manglarito. \_\_DP: ca/vr. \_\_AL: 0. \_\_WD:  
Nicaragua to South America. \_\_US: \_\_VS: 16271 SC, 1643 AI. \_\_Photo: 329

**Ocotea cernua** (Nees) Mez

**CN:** *sigua, sigua amarillo*. **SY:** *Oreodaphne cernua* Nees **HA:** tree to 20 m. **HB:** secondary forests. **LO:** BH: El Edén Plot. **DP:** bo/ca/ch/da/pa/vr/. **AL:** 0/1. **WD:** Central America to Peru and S Brazil; also in the Antilles. **US:** **VS:** 2219 Al. **Photo:**

**Ocotea rubrinervis** Mez

**CN:** **SY:** **HA:** tree to 15 m. **HB:** mature and secondary forests, scrub. **LO:** ICT: path close to the Lab. N of the island. From Naranjo Amargo to Playa de los Luchos. Path from the Train Station to Playa de los Luchos. Between Playa Naranjo and the most NW point of the island. Plot 1. **DP:** he/lo/pa/. **AL:** 0. **WD:** Panama to Bolivia. **US:** **VS:** 1346 Al, 1570 Al, 16132 SC, 16159 SC, 16227 SC, 1734 Al, 1768 Al, 1885 Al. **Photo:** 330

**Persea americana** Mill.

**CN:** *aguacate (BH), avocado*. **SY:** *Persea gratissima* Gaertn. **HA:** tree to 40 m. **HB:** cultivated. **LO:** BH: surroundings of Playa Limón. **DP:** ca/ch/he/pa/. **AL:** 0. **WD:** probably native to Mexico and widely cultivated. **US:** fruits are edible (Simpson & Ogorzaly, 1995). **VS:** 16276 SC. **Photo:**

**Laur sp.1**

**CN:** **SY:** **HA:** tree to 20 m. **HB:** mature and secondary forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** **AL:** **WD:** **US:** **VS:** 16376 SC. **Photo:**

**Laur sp.2**

**CN:** **SY:** **HA:** tree to 25 m. **HB:** mature and secondary forests. **LO:** BH: Río Seco headwaters. Cativito. **DP:** **AL:** **WD:** **US:** **VS:** 2067 Al, 2132 Al. **Photo:**

LECYTHIDACEAE

**Couratari guianensis** Aubl.

**CN:** *coco (BH), coco de mono, coquito, condón de mono*. **SY:** *Couratari panamensis* Standl.; *Couratari pulchra* Sandwith **HA:** tree to 50 m. **HB:** mature and secondary forests. **LO:** BH: from Jeringuita to Jeringón. Between El Suto and Jeringón. ICT: between Playa Naranjo and the most NW point of the island. **DP:** bo/ca/cn/da/pa/. **AL:** 0. **WD:** Costa Rica and Panama to Bolivia. **US:** valuable timber (Vozzo, 2002). The heavy wood is used in bridge construction, stakes for fences, cabinet making, carpentry, molding, furniture, packing, boxes, planking and flooring (Pérez & Condit, 2002). **VS:** 16111 SC, 16432 SC, 2005 Al. **Photo:** 331

**Eschweilera pittieri** R. Knuth

**CN:** **SY:** *Eschweilera reversa* Pittier; *Eschweilera verruculosa* Pittier **HA:** tree to 30 m. **HB:** mature forests. **LO:** BH: Río Seco headwaters. **DP:** ca/ch/cn/da/pa/sa/vr/. **AL:** 0. **WD:** Costa Rica, Panama, Colombia (Chocó) and Ecuador. **US:** **VS:** 2035 Al, 2065 Al. **Photo:**

**Gustavia superba** (Kunth) O. Berg.

**CN:** membrillo (BH), tupu (K). **SY:** *Pirigara superba* Kunth; *Gustavia superba* var. *salviniae* Hemsl. **HA:** tree to 15 m. **HB:** secondary and occasionally mature forests. **LO:** BH: Playa Blanca. El Edén Plot. ICT: between Playa Naranjo and the most NW point of the island. **DP:** ca/cc/cn/da/pa/vr/. **AL:** 0. **WD:** Panama, Colombia (Chocó, Antioquia) and Ecuador (Esmeraldas). **US:** Fruits edible (Woodson & Schery, 1958). Swellings, diuretic (Correa & Bernal, 1989). Mental disorders (Gupta & al., 1993). Fruits are eaten by pigs (BH). **VS:** 16090 SC, 1903 AI, 2239 AI. **Photo:**

#### LIMNOCHARITACEAE

**Limnocharis laforestii** Duchass. ex Griseb.

**CN:** **SY:** *Limnocharis flava* var. *minor* Micheli **HA:** herb. **HB:** humid places. **LO:** BH: Río Luis plains. **DP:** ca/cc/da/he/lo/pa/. **AL:** 0. **WD:** Mexico to Bolivia and Argentina. **US:** **VS:** 1601 AI. **Photo:** 332

#### LOGANIACEAE

**Spigelia anthelmia** L.

**CN:** lombricera, ina nusu (K). **SY:** **HA:** herb. **HB:** scrub. **LO:** BH: surroundings of Playa Limón. ICT: Playa de los Luchos. **DP:** bo/ca/ch/cn/da/lo/pa/sa/vr/. **AL:** 0. **WD:** Mexico to Argentina. **US:** skin infections and conjunctivitis (Gupta & al., 1993). Intestinal worms (Zapata, 1995). **VS:** 1387 AI, 16038 SC, 16293 SC. **Photo:** 333-334-335

**Strychnos darienensis** Seem.

**CN:** fruta de murciélago. **SY:** **HA:** liana. **HB:** mature and secondary forests. **LO:** BH: between El Suto and Jeringón. Playa del Sol. Surroundings of Playa Limón. ICT: N of the island. **DP:** ca/cn/da/pa/vr/. **AL:** 0. **WD:** Nicaragua to Peru and Brazil. **US:** **VS:** 16197 SC, 16284 SC, 16403 SC, 1959 AI. **Photo:** 336 (AE)

#### LORANTHACEAE

**Oryctanthus spicatus** (Jacq.) Eichler

**CN:** **SY:** *Loranthus spicatus* Jacq. **HA:** parasitic shrub. **HB:** forests, open areas. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** ch/. **AL:** 1. **WD:** Guatemala to Brazil and Peru. **US:** **VS:** 16372 SC. **Photo:**

**Phthirusa pyrifolia** (Kunth) Eichler

**CN:** muérdago. **SY:** *Loranthus pyrifolius* Kunth **HA:** parasitic shrub. **HB:** forests, open areas. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** ca/. **AL:** 0. **WD:** S Mexico to Brazil and Bolivia. **US:** **VS:** 16395 SC. **Photo:**

#### LYTHRACEAE

**Cuphea carthagenensis** (Jacq.) J.F. Macbr.

**CN:** estrellitas del cielo. **SY:** *Lythrum carthagenense* Jacq. **HA:** herb. **HB:** open areas. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:**

bo/ca/cc/ch/cn/he/lo/pa/. \_\_AL: 0/1. \_\_WD: SE United States to Argentina; Taiwan and Oceania. \_\_US: ornamental (León & Poveda, 2000). \_\_VS: 16331 SC. \_\_Photo:

**Cuphea serpyllifolia** Kunth

CN: \_\_SY: \_\_HA: herb. \_\_HB: open areas. \_\_LO: BH: Playa del Sol. \_\_DP: ch/pa/.  
\_\_AL: 0. \_\_WD: Panama to Peru. \_\_US: \_\_VS: 16076 SC. \_\_Photo:

**Cuphea utriculosa** Koehne

CN: \_\_SY: \_\_HA: herb. \_\_HB: waterfalls. \_\_LO: BH: Manglarito. \_\_DP: ca/cc/ch/cn/da/he/pa/vr/.  
\_\_AL: 0. \_\_WD: S Mexico to Panama. \_\_US: \_\_VS: 1641 Al. \_\_Photo: 337

**MALPIGHIACEAE**

**Bunchosia dwyeri** Cuatrec. & Croat

CN: *cerezo de montaña* (BH). \_\_SY: \_\_HA: shrub o tree to 12 m. \_\_HB: coastal fringe.  
\_\_LO: BH: Manglarito. Surroundings of Playa Limón. Playa Jeringuita. ICT: Playa de la Estación del Tren. \_\_DP: bo/ca/ch/da/pa/vr/. \_\_AL: 0/1. \_\_WD: Nicaragua, Costa Rica and Panama. \_\_US: \_\_VS: 16309 SC, 1644 Al, 1912 Al, 1928 Al, 1967 Al, 1989 Al.  
\_\_Photo: 338

**Byrsonima crassifolia** (L.) Kunth

CN: *nance* (BH), *nance rojo*. \_\_SY: *Malpighia crassifolia* L.; *Byrsonima panamensis* Beurl.; *Byrsonima fendleri* Turcz.; *Byrsonima cumingiana* A. Juss. \_\_HA: shrub o tree to 15 m. \_\_HB: scrub. \_\_LO: ICT: path from Playa de los Luchos to N of the island.  
\_\_DP: bo/ca/cc/ch/cn/da/he/lo/pa/vr/. \_\_AL: 0/1. \_\_WD: Mexico to S Brazil and Paraguay; also in the Antilles. \_\_US: used as firewood and beams for houses. Fruits are edible and used to make drinks (Santana, 1998). It has been used for coal making (Vozzo, 2002). Treatment of chronic diarrhoea and as a diuretic (Gupta, 1995). Fruit is made into a drink and a special cake called "pesada" in Panama (BH). \_\_VS: 16035 SC, 1877 Al. \_\_Photo: 339

**Heteropterys macrostachya** A. Juss.

CN: \_\_SY: *Heteropterys apiculata* Miq.; *Banisteria apiculata* (Miq.) C.B. Rob.; *Heteropterys belizensis* Lundell \_\_HA: vine. \_\_HB: scrub. \_\_LO: ICT: N of the island.  
\_\_DP: da/pa/vr/. \_\_AL: 0. \_\_WD: S Mexico and Belize to Central Brazil and Bolivia. \_\_US: \_\_VS: 16195 SC. \_\_Photo:

**Stigmaphyllon ellipticum** (Kunth) A. Juss.

CN: \_\_SY: *Banisteria elliptica* Kunth; *Banisteria mucronata* DC.; *Stigmaphyllon mucronatum* (DC.) A. Juss. \_\_HA: vine. \_\_HB: scrub. \_\_LO: BH: Playa de Lerencito. ICT: N of the island. \_\_DP: bo/ca/cc/ch/cn/da/he/lo/pa/sa/. \_\_AL: 0/1. \_\_WD: Mexico to N South America. \_\_US: \_\_VS: 1461 Al, 16152 SC. \_\_Photo: 340

**Tetrapterys goudotiana** Triana & Planch.

CN: \_\_SY: *Tetrapterys macrocarpa* I.M. Johnst. \_\_HA: vine. \_\_HB: secondary forests, coastal fringe. \_\_LO: BH: between El Suto and Jeringón. ICT: Playa de los Luchos.

Playa del Laboratorio. \_\_DP: pa/vr. \_\_AL: 0. \_\_WD: Costa Rica to Colombia. \_\_US:  
\_\_VS: 1376 AI, 16437 SC, 1702 AI. \_\_Photo: 341

## MALVACEAE

### **Malvaviscus arboreus** Cav.

**CN:** *mapola*, *papo de monte*. \_\_SY: *Hibiscus malvaviscus* L.; *Malvaviscus arboreus*  
var. *mexicanus* Schlttdl. \_\_HA: shrub. \_\_HB: scrub, open areas. \_\_LO: BH: Playa de  
Lerencito. From "Cativo Forest" near Río Luis to Playa del Sol. \_\_DP:  
bo/ca/cc/ch/da/lo/pa/vr/. \_\_AL: 0. \_\_WD: Mexico to N South America. \_\_US: to treat  
colds, body aches and earache (Zapata, 1995). \_\_VS: 1466 AI, 1592 AI. \_\_Photo:  
342-343

### **Pavonia fruticosa** (Mill.) Fawc. & Rendle

**CN:** *pega-pega*, *cepa de caballo*. \_\_SY: *Sida fruticosa* Mill. \_\_HA: shrub. \_\_HB: scrub.  
\_\_LO: BH: surroundings of Playa Limón. Path from Limón to the Magic Forest. \_\_DP:  
ca/ch/da/pa/sa/. \_\_AL: 0/1. \_\_WD: Costa Rica to Bolivia and the Antilles. \_\_US: \_\_VS:  
16256 SC, 1988 AI. \_\_Photo:

### **Sida acuta** Burm. f.

**CN:** *escobilla*. \_\_SY: *Sida acuta* var. *carpinifolia* (L. f.) K. Schum.; *Sida carpinifolia* L. f.  
\_\_HA: herb. \_\_HB: scrub, open areas. \_\_LO: BH: Managua Island. \_\_DP:  
bo/ca/cc/ch/cn/da/pa/. \_\_AL: 0. \_\_WD: pantropical. \_\_US: \_\_VS: 16243 SC. \_\_Photo:

### **Sida rhombifolia** L.

**CN:** *escobilla*, *escoba*, *escobilla de puerco*, *hierba araña*. \_\_SY: \_\_HA: herb. \_\_HB:  
scrub, open areas. \_\_LO: BH: El Edén. Río Luis plains. Playa del Sol. \_\_DP:  
bo/ca/cc/ch/cn/da/he/pa/sa/. \_\_AL: 0/1. \_\_WD: almost cosmopolitan, it occurs in all  
tropics, subtropics and as an annual herb in the temperate zone. \_\_US: to treat  
diarrhoea, fever, headache and kidney disorders (Gupta, 1995). In cases of scorpion  
poisoning (Zapata, 1995). \_\_VS: 19582 JLFA, 1489 AI, 1589 AI. \_\_Photo: 344

### **Talipariti tiliaceum** var. **pernambucense** (Arruda) Fryxell

**CN:** *majaguillo* (BH), *majagua*, *papo de playa*. \_\_SY: *Hibiscus pernambucensis* Arruda.  
\_\_HA: shrub. \_\_HB: beaches. \_\_LO: BH: Playa del Sol. \_\_DP:  
bo/ca/ch/cn/da/pa/sa/vr/. \_\_AL: 0. \_\_WD: widely distributed in tropical America. \_\_US:  
\_\_VS: 16232 SC. \_\_Photo: 345-346-347 (SC)

### **Urena lobata** L.

**CN:** *cadillo* (BH), *cepa de caballo*. \_\_SY: *Urena grandiflora* DC. \_\_HA: herb. \_\_HB:  
scrub. \_\_LO: BH: de Limón to El Edén. \_\_DP: bo/ca/cn/. \_\_AL: 0. \_\_WD: widely  
distributed in the New and Old World tropics. \_\_US: \_\_VS: 1539 AI. \_\_Photo: 348

### **Wissadula excelsior** (Cav.) C. Presl

**CN:** \_\_SY: *Sida excelsior* Cav.; \_\_HA: shrub. \_\_HB: scrub. \_\_LO: BH: from Playa del  
Sol to El Edén. \_\_DP: bo/ca/cc/pa/. \_\_AL: 0. \_\_WD: S Mexico to N South America;  
also in Cuba. \_\_US: \_\_VS: 1663 AI. \_\_Photo: 349-350

## MARANTACEAE

**Calathea inocephala** (Kuntze) H. Kenn. & D. Nicolson

**CN:** \_\_ **SY:** *Phyllodes inocephala* Kuntze; *Calathea barbillana* Cufod. **HA:** shrub. **HB:** humid places. **LO:** ICT: between Playa Naranjo and the most NW point of the island. **DP:** bo/ca/cc/ch/cn/da/pa/. **AL:** 0. **WD:** Guatemala to Ecuador and Venezuela. **US:** \_\_ **VS:** 16081 SC. **Photo:**

**Calathea lutea** (Aubl.) Schult.

**CN:** *bijao* (BH), *bijao blanco* (BH), *hoja blanca*, *platanillo*, *urua'dili*, *urua* (K). **SY:** *Calathea discolor* G. Mey.; *Calathea magnifica* C.V. Morton & Skutch; *Maranta lutea* Aubl. **HA:** shrub. **HB:** humid places, scrub. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** bo/ca/cc/ch/cn/da/lo/pa/. **AL:** 0. **WD:** Mexico to Brazil and Peru; the Antilles. **US:** leaves are used to wrap food for cooking (León & Poveda, 2000). To treat children weaknesses, to strengthen learning capacity and mental disorders (Gupta & al., 1993). **VS:** 16394 SC. **Photo:** 351-352-353

**Pleiostachya pruinosa** (W. Bull ex Regel) K. Schum.

**CN:** *bijao negrito* (BH). **SY:** *Maranta pruinosa* Regel; *Ischnosiphon pruinosa* (Regel) Petersen; *Pleiostachya morlae* (Eggers) K. Schum. **HA:** shrub. **HB:** humid places, scrub. **LO:** ICT: path from JP's house to Playa del Laboratorio. **DP:** bo/ca/ch/da/pa/vr/. **AL:** 0. **WD:** Mexico to Colombia. **US:** leaves used to cook "tamales" (wrapped corn with meat) (BH). **VS:** 1508 Al. **Photo:** 354-355-356

## MARCGRAVIACEAE

**Souroubea venosa** Schery

**CN:** \_\_ **SY:** \_\_ **HA:** epiphytic shrub. **HB:** coastal fringe. **LO:** BH: Cativito. Punta Gorda ridge. **DP:** cc/pa/vr/. **AL:** 0. **WD:** Costa Rica and Panama. **US:** \_\_ **VS:** 16515 SC, 2120 Al. **Photo:**

## MELASTOMATACEAE

**Adelobotrys adscendens** (Sw.) Triana

**CN:** \_\_ **SY:** *Melastoma adscendens* Sw. **HA:** vine. **HB:** scrub. **LO:** BH: Punta Gorda ridge. **DP:** bo/ca/cc/ch/cn/da/pa/sa/vr/. **AL:** 0. **WD:** Mexico (Veracruz) to Bolivia and Brazil; Jamaica. **US:** \_\_ **VS:** 16506 SC. **Photo:**

**Bellucia pentamera** Naudin

**CN:** *coronillo* (BH). **SY:** *Bellucia axinantha* Triana; *Bellucia costaricensis* Cogn. **HA:** shrub or tree to 12 m. **HB:** scrub, Secondary forests. **LO:** ICT: N of the island. **DP:** ca/ch/da/. **AL:** 0/1. **WD:** S Mexico to Brazilian and Bolivian Amazon. **US:** \_\_ **VS:** 16161 SC. **Photo:** 358 (SC)

**Clidemia capitellata** (Bonpl.) D. Don

**CN:** *hoja peluda*. **SY:** *Melastoma capitellatum* Bonpl.; *Clidemia capitellata* var. *neglecta* (D. Don) L.O. Williams; *Clidemia neglecta* D. Don **HA:** shrub. **HB:** scrub.

\_\_\_LO: ICT. \_\_\_DP: bo/ca/cc/ch/cn/da/pa/sa/vr/. \_\_\_AL: 0. \_\_\_WD: S Mexico to Bolivia and Brazil; the Antilles. \_\_\_US: \_\_\_VS: 16535 SC. \_\_\_Photo:

**Clidemia densiflora** (Standl.) Gleason

CN: \_\_\_SY: *Henriettella densiflora* Standl. \_\_\_HA: shrub. \_\_\_HB: mature and secondary forests. \_\_\_LO: BH: El Edén Plot. \_\_\_DP: cc/da/sa/. \_\_\_AL: 0. \_\_\_WD: Belize and Guatemala to Colombia (Chocó). \_\_\_US: \_\_\_VS: 2159 AI. \_\_\_Photo:

**Clidemia dentata** D. Don.

CN: \_\_\_SY: *Staphidium brachystephanum* Naudin; *Clidemia brachystephana* (Naudin) Triana. \_\_\_HA: shrub. \_\_\_HB: secondary forests and scrub. \_\_\_LO: BH: El Edén. From "Cativo Forest" near Río Luis to Playa del Sol. Between Playa del Sol and Salmonete, Río Luis area. ICT: N of the island. \_\_\_DP: bo/ca/cc/cn/da/pa/sa/. \_\_\_AL: 0. \_\_\_WD: S Mexico (Veracruz) to Bolivia and S Brazil. \_\_\_US: \_\_\_VS: 1481 AI, 1615 AI, 16209 SC, 16397 SC, 1817 AI, 2146 AI. \_\_\_Photo: 359-360-361

**Clidemia discolor** (Triana) Cogn.

CN: \_\_\_SY: *Sagraea discolor* Triana; *Clidemia purpureoviolacea* Cogn. \_\_\_HA: shrub. \_\_\_HB: mature and secondary forests. \_\_\_LO: BH: El Edén Plot. \_\_\_DP: ca/cc/da/pa/sa/vr/ch/. \_\_\_AL: 0. \_\_\_WD: Nicaragua to Peru. \_\_\_US: \_\_\_VS: 2158 AI. \_\_\_Photo:

**Clidemia gracilis** Pittier

CN: \_\_\_SY: \_\_\_HA: shrub. \_\_\_HB: mature forests. \_\_\_LO: BH: Río Seco headwaters. \_\_\_DP: bo/ca/cc/cn/da/sa/. \_\_\_AL: 0. \_\_\_WD: Nicaragua to Colombia. \_\_\_US: \_\_\_VS: 2077 AI. \_\_\_Photo:

**Conostegia cinnamomea** (Beurl.) Wurdack

CN: \_\_\_SY: *Miconia cinnamomea* Beurl.; *Conostegia micromeris* Standl. \_\_\_HA: shrub. \_\_\_HB: mature and secondary forests. \_\_\_LO: BH: Punta Gorda ridge. In the way to Río Seco headwaters. \_\_\_DP: ca/cc/cn/da/pa/. \_\_\_AL: 0. \_\_\_WD: E Nicaragua to SW Colombia and Venezuela. \_\_\_US: \_\_\_VS: 16482 SC, 2037 AI. \_\_\_Photo:

**Conostegia subcrustulata** (Beurl.) Triana

CN: \_\_\_SY: *Miconia subcrustulata* Beurl.; *Conostegia purpurea* Griseb. \_\_\_HA: shrub. \_\_\_HB: secondary forests. \_\_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. Surroundings of Salmonete. Surroundings of Playa Limón. \_\_\_DP: bo/cc/ch/cn/da/pa/vr/. \_\_\_AL: 0. \_\_\_WD: Nicaragua to Colombia and Ecuador. \_\_\_US: \_\_\_VS: 16296 SC, 16388 SC, 16558 SC. \_\_\_Photo:

**Henriettea succosa** (Aubl.) DC.

CN: \_\_\_SY: *Melastoma succosum* Aubl.; *Henriettella macrocalyx* Standl.; *Henriettea macrocalyx* (Standl.) Gleason \_\_\_HA: shrub or tree to 12 m. \_\_\_HB: coastal fringe, mature and secondary forests. \_\_\_LO: ICT: N of the island. Plot 1. \_\_\_DP: bo/ca/cn/pa/vr/. \_\_\_AL: 0. \_\_\_WD: S Mexico (Chiapas) to S Panama, Trinidad, the Guianas and E Brazil. \_\_\_US: \_\_\_VS: 16176 SC, 1883 AI. \_\_\_Photo:

**Henriettella cuneata** (Standl.) Gleason

**CN:** \_\_ **SY:** *Henriettea cuneata* (Standl.) L.O. Williams; *Maieta cuneata* Standl. **HA:** shrub or tree to 10 m. **HB:** mature forests, humid places. **LO:** BH: Río Seco headwaters. El Edén Plot. **DP:** pa/da/sa/. **AL:** 0. **WD:** Belize, Guatemala and Nicaragua to Panama. **US:** \_\_ **VS:** 2050 AI, 2154 AI. **Photo:**

**Miconia argentea** (Sw.) DC.

**CN:** *papelillo* (BH), *dos caras*, *oreja de mula*, *canillo*. **SY:** *Melastoma argenteum* Sw. **HA:** tree to 20 m. **HB:** scrub, secondary forests. **LO:** BH: El Edén Plot. ICT: Playa del Cedro. Between Playa Naranja and the most NW point of the island. Plot 1. **DP:** ca/cc/ch/cn/da/lo/pa/sa/vr/. **AL:** 0/1. **WD:** S Mexico (Oaxaca and Veracruz) to Panama. **US:** The wood is used for tool handles and in rural houses construction. It is a fast growing species suitable for mixed plantations to recover degraded areas. It has a great potential for apiculture (Pérez & Condit, 2002). **VS:** 16107 SC, 1654 AI, 1747 AI, 2186 AI. **Photo:** 362

**Miconia impetiolearis** var. **pandurifolia** Naudin

**CN:** *oreja de mula* (BH), *dos caras*. **SY:** \_\_ **HA:** shrub or tree to 10 m. **HB:** scrub. **LO:** BH: from Playa Jeringuita to Playa Blanca. ICT: path from Playa de los Luchos to N of the island. **DP:** bo/ca/cc/ch/da/pa/vr/. **AL:** 0. **WD:** Nicaragua to NE Colombia. **US:** \_\_ **VS:** 16057 SC, 1752 AI, 1917 AI. **Photo:** 363 (AE)-364

**Miconia lacera** (Bonpl.) Naudin

**CN:** \_\_ **SY:** *Melastoma lacerum* Bonpl. **HA:** shrub. **HB:** scrub. **LO:** BH: banks of Río Limón. Punta Gorda ridge. ICT: path close to the Lab. Path from Playa de los Luchos to N of the island. **DP:** bo/ca/cc/ch/cn/da/he/pa/sa/vr/. **AL:** 0. **WD:** S Mexico (Oaxaca and Veracruz) to Peruvian and Brazilian Amazon; the Antilles. **US:** \_\_ **VS:** 1351 AI, 1421 AI, 16054 SC, 16468 SC, 1809 AI. **Photo:** 365-366

**Miconia minutiflora** (Bonpl.) DC.

**CN:** *copo de nieve*. **SY:** *Melastoma minutiflorum* Bonpl.; *Miconia borealis* Gleason **HA:** shrub or tree to 15 m. **HB:** scrub. **LO:** ICT: path from Playa de los Luchos to N of the island. N of the island. **DP:** ca/cc/ch/cn/he/pa/vr/. **AL:** 0. **WD:** S Mexico (Guerrero and Veracruz) to SE Brazil and Bolivian Amazon; Trinidad and Cuba. **US:** \_\_ **VS:** 1412 AI, 1449 AI, 16055 SC, 16177 SC. **Photo:** 367

**Miconia poeppigii** Triana

**CN:** *golondrino* (BH). **SY:** *Miconia darienensis* Pittier **HA:** tree to 30 m. **HB:** secondary forests. **LO:** BH: El Edén Plot. Punta Gorda ridge. ICT: path from Playa de los Luchos to N of the island. **DP:** ca/cc/da/sa/. **AL:** 0/1. **WD:** Guatemala to Amazonia in Brazil, Bolivia and Peru. **US:** timber used in thatched roofs framework (BH). **VS:** 1400 AI, 16465 SC, 2183 AI. **Photo:** 368

**Miconia prasina** (Sw.) DC.

**CN:** \_\_ **SY:** *Melastoma prasinum* Sw.; *Miconia pteropoda* Benth. **HA:** shrub or tree to 12 m. **HB:** secondary forests. **LO:** ICT: N of the island. Plot 1. Forest N of the island. Path from Playa de los Luchos to N of the island. **DP:** bo/ca/cc/ch/cn/da/he/pa/vr/. **AL:** 0. **WD:** S Mexico (Oaxaca and Tabasco) to



Bolivia and Paraguay; also in the Antilles. \_\_US: \_\_VS: 1401 AI, 16052 SC, 16157 SC, 16178 SC, 1884 AI, 1998 AI. \_\_Photo: 369

**Miconia schlimii** Triana

CN: \_\_SY: *Conostegia dolichostylis* Donn. Sm. \_\_HA: shrub or tree to 8 m. \_\_HB: scrub, coastal fringe. \_\_LO: BH: surroundings of Playa Limón. ICT: between Playa Naranjo and the most NW point of the island. \_\_DP: bo/cc/ch/da/. \_\_AL: 0/1. \_\_WD: Guatemala and Belize to N Colombia and Venezuela. \_\_US: \_\_VS: 16083 SC, 16251 SC. \_\_Photo:

**Mouriri gleasoniana** Standl.

CN: *gasparillo* (BH). \_\_SY: *Mouriri coibensis* Morley; *Mouriri gleasoniana* var. *coibensis* (Morley) Morley \_\_HA: shrub or tree to 18 m. \_\_HB: mature and secondary forests. \_\_LO: ICT: Plot 1. \_\_DP: cn/vr/. \_\_AL: 0. \_\_WD: S Mexico (Oaxaca and Veracruz) to Panama. \_\_US: \_\_VS: 1866 AI. \_\_Photo:

**Mouriri myrtilloides** ssp. *parvifolia* (Benth.) Morley

CN: *gasparillo* (BH), *arracheche*, *cierito*, *camaroncillo*, *guayabillo*. \_\_SY: *Mouriri parvifolia* Benth. \_\_HA: shrub or tree to 15 m. \_\_HB: mature and secondary forests, scrub, humid places. \_\_LO: ICT: close to JP's house. Plot 1. \_\_DP: bo/ca/cc/ch/da/lo/pa/. \_\_AL: 0. \_\_WD: Mexico (Nayarit) to Bolivia and Brazil. \_\_US: \_\_VS: 1766 AI, 1368 AI. \_\_Photo: 370-371

**Pterolepis trichotoma** (Rottb.) Cogn. in Mart.

CN: \_\_SY: *Rhexia trichotoma* Rottb.; *Pterolepis pumila* (DC.) Cogn. \_\_HA: herb. \_\_HB: scrub. \_\_LO: ICT: path from Playa de los Luchos to N of the island. \_\_DP: cc/pa/. \_\_AL: 0. \_\_WD: Mexico to Brazil and Trinidad. \_\_US: \_\_VS: 1426 AI. \_\_Photo: 372-373

**Tibouchina bipenicillata** (Naudin) Cogn.

CN: *canillo*, *uña del diablo*. \_\_SY: *Lasiandra bipenicillata* Naudin \_\_HA: shrub. \_\_HB: scrub. \_\_LO: ICT: path from Playa de los Luchos to N of the island. \_\_DP: ch/he/vr/. \_\_AL: 1. \_\_WD: Costa Rica, Panama, Colombia and Venezuela. \_\_US: \_\_VS: 1415 AI. \_\_Photo: 374-375-376

**Tibouchina longifolia** Cogn.

CN: \_\_SY: *Rhexia longifolia* Vahl; *Tibouchina bourgaeana* Cogn.; *Tibouchina aliena* Brandegee; *Chaetogastra dichotoma* Ram. Goyena; *Chaetogastra ferruginea* Hook. & Arn. \_\_HA: herb. \_\_HB: scrub. \_\_LO: ICT: path from Playa de los Luchos to N of the island. Path close to the Lab. \_\_DP: bo/ca/cc/ch/da/he/lo/pa/. \_\_AL: 0. \_\_WD: Mexico to Brazil and Bolivia; the Antilles. \_\_US: \_\_VS: 1347 AI, 1425 AI. \_\_Photo: 377-378-379

**Mela** sp.1

CN: \_\_SY: \_\_HA: tree. \_\_HB: mature and secondary forests. \_\_LO: BH: El Edén Plot. \_\_DP: \_\_AL: \_\_WD: \_\_US: \_\_VS: 2236 AI. \_\_Photo:

## MELIACEAE

### **Carapa guianensis** Aubl.

**CN:** *tangaré (BH)*, *cedro tangaré (BH)*, *bateo*, *carapa*, *cedro bateo*. **SY:** *Carapa nicaraguensis* C. DC.; *Carapa slateri* Standl.; *Granatum nicaraguense* (C. DC.) Kuntze  
**HA:** tree to 40 m. **HB:** in BH and Coiba it grows in mature forests. In other areas it grows in swamps and temporarily waterlogged areas. **LO:** BH: El Edén Plot. ICT: Plot 1. **DP:** bo/ca/cn/sa/vr/. **AL:** 0. **WD:** Belize to Peru and Brazil. **US:** timber used in general construction. Tannins are extracted from its bark. Medicinally it is used to treat diarrhoea, dysentery, rheumatism and ulcers (Vozzo, 2002). Used to build houses and fences (BH). **VS:** 1720 AI, 2254 AI. **Photo:**

### **Cedrela odorata** L.

**CN:** *cedro amargo*, *cedro*, *cedro cebolla*. **SY:** *Cedrela mexicana* M. Roem. **HA:** tree to 25 m. **HB:** cultivated. **LO:** BH: Playa del Sol. **DP:** bo/ca/ch/cn/da/he/. **AL:** 0. **WD:** Mexico to Argentina and the Antilles. **US:** timber yielding species. An infusion from the bark is used to treat diarrhoea, vomits, fever, bronchitis, indigestion and haemorrhage (Vozzo, 2002). A valuable, fragrant, light and pink-colour timber (Stevens & al., 2001). **VS:** not collected. **Photo:**

### **Guarea grandifolia** DC.

**CN:** *caoba de montaña*, *cedro macho*, *chuchupate*, *surmas (K)*, *kagaglin (G)*. **SY:** *Guarea chichon* C. DC. **HA:** tree to 30 m. **HB:** mature and secondary forests. **LO:** BH: El Edén Plot. ICT: between Playa Naranjo and the most NW point of the island. From Naranjo Amargo to Playa de los Luchos. **DP:** bo/ca/ch/cn/da/pa/sa/cc/. **AL:** 0. **WD:** Mexico to South America. **US:** used as a disinfectant in cases of snake bite (Paredes & Herrera, 1997). Emetic, liver disorders (Joly & al., 1987). Timber used in house construction and bark against rheumatism (Stevens & al., 2001). **VS:** 1576 AI, 16115 SC, 2180 AI, 2244 AI. **Photo:** 380

### **Guarea pterorhachis** Harms.

**CN:** *alfajía*. **SY:** **HA:** tree to 20 m. **HB:** mature and secondary forests. **LO:** BH: El Edén Plot. Río Seco headwaters. **DP:** bo/pa/. **AL:** 0. **WD:** Nicaragua to Peru and Bolivia. **US:** used for firewood and timber (Stevens & al., 2001). **VS:** 2040 AI, 2214 AI. **Photo:**

### **Trichilia pallida** Sw.

**CN:** **SY:** *Trichilia montana* Kunth; *Trichilia skutchii* C.V. Morton & P.H. Allen **HA:** tree to 10 m. **HB:** river banks. **LO:** BH: banks of Río Limón. **DP:** bo/ca/ch/cn/da/pa/vr/. **AL:** 0/1. **WD:** Mexico to N Argentina; the Antilles. **US:** **VS:** 1799 AI, 1966 AI. **Photo:**

### **Trichilia tuberculata** (Triana & Planch.) C. DC.

**CN:** *alfagía (BH)*, *alfaje*, *fosforito*, *alfageo colorado*. **SY:** *Odontandra tuberculata* Triana & Planch. **HA:** tree to 30 m. **HB:** humid mature forests. **LO:** BH: El Edén Plot. Río Limón. Manglarito. Cativito. **DP:** bo/ca/ch/cn/pa/sa/. **AL:** 0. **WD:** Costa Rica, Panama and Peruvian Amazon. **US:** timber used in heavy constructions, bridges, fences, floorboards and floors. In Panama also used as firewood, as it burns when green. This is the reason for its Spanish name "fosforito". It has a great potential

in apiculture (Pérez & Condit, 2002). \_\_VS: 1651 AI, 1975 AI, 2122 AI, 2229 AI, 2266 AI. \_\_Photo: 381-382

#### MENISPERMACEAE

**Cissampelos tropaeolifolia** DC.

**CN:** \_\_SY: \_\_HA: vine. \_\_HB: scrub. \_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. Path from Limón to El Edén. \_\_DP: bo/ca/cc/ch/cn/da/pa/sa/vr/. \_\_AL: 0/1. \_\_WD: C Mexico to Bolivia and Brazil. \_\_US: \_\_VS: 16392 SC, 1812 AI. \_\_Photo:

#### MONIMIACEAE

**Siparuna guianensis** Aubl.

**CN:** *pasmo*, *hierba de pasmo*. \_\_SY: *Citrosma guianensis* (Aubl.) Tul.; *Siparuna panamensis* A. DC.; *Siparuna discolor* (Poepp. & Endl.) A. DC. \_\_HA: shrub or tree to 10 m. \_\_HB: scrub. \_\_LO: ICT. \_\_DP: bo/ca/ch/da/he/pa/vr/. \_\_AL: 0/1. \_\_WD: Nicaragua to Brazil and Peru. \_\_US: \_\_VS: 16046 SC. \_\_Photo:

**Siparuna pauciflora** (Beurl.) A. DC.

**CN:** *pasmo de playa (BH)*, *pasmo de aire (BH)*, *limoncillo*, *pasmo*, *hierba de pasmo*, *pasmo hediondo*. \_\_SY: *Citrosma pauciflora* Beurl. \_\_HA: shrub or tree to 10 m. \_\_HB: mature and secondary forests, coastal fringe. \_\_LO: BH: between El Suto and Jeringón. ICT: forest N of the island. Plot 1. \_\_DP: bo/ca/cc/ch/cn/da/pa/. \_\_AL: 0. \_\_WD: Nicaragua to Peru. \_\_US: decoction of leaves is used to treat muscle pain (Zapata, 1995). Fresh leaves are directly applied to the head to treat headache (BH). \_\_VS: 1454 AI, 16417 SC, 1717 AI. \_\_Photo: 383-384-385

#### MORACEAE

**Artocarpus altilis** (Parkinson) Fosberg

**CN:** *árbol de pan*, *fruta de pan*, *breadfruit*, *breadnut*. \_\_SY: *Sitodium altile* Parkinson; *Artocarpus communis* J.R. Forst. & G. Forst. \_\_HA: tree to 20 m. \_\_HB: cultivated. \_\_LO: BH: El Edén. \_\_DP: . \_\_AL: . \_\_WD: native to Asia, widely cultivated in all tropics. \_\_US: timber yielding species, ornamental and edible fruits (Little & Wadsworth, 1964). \_\_VS: not collected. \_\_Photo: 386

**Brosimum alicastrum** ssp. **bolivarense** (Pittier) C.C. Berg

**CN:** *berbá (BH)*, *azulillo*, *ojoche*, *breadnut*. \_\_SY: *Helicostylis bolivariensis* Pittier; *Brosimum bernadetteae* Woodson \_\_HA: tree to 35 m. \_\_HB: mature forests. \_\_LO: BH: surroundings of Playa Limón. ICT: Plot 1. N of the island. From Naranjo Amargo to Playa de los Luchos. \_\_DP: bo/ca/ch/da/lo/pa/. \_\_AL: 0. \_\_WD: Costa Rica to N Colombia, Peru and Bolivia. \_\_US: \_\_VS: 1716 AI, 1721 AI, 1730 AI, 1767 AI, 1874 AI, 1574 AI, 16213 SC, 16273 SC. \_\_Photo: 387

**Castilla elastica** ssp. **costaricana** (Liebm.) C.C. Berg

**CN:** *caucho*, *hule*, *mastate blanco*. \_\_SY: *Castilla costaricana* Liebm. \_\_HA: tree to 30 m. \_\_HB: secondary forests. \_\_LO: BH: El Edén Plot. \_\_DP: bo/ca/cc/da/pa/. \_\_AL: 0.

\_\_WD: Belize to Panama (on the Atlantic coast) and Pacific coast in Colombia. \_\_US:  
\_\_VS: 2177 Al. \_\_Photo:

**Ficus citrifolia** Mill.

CN: *higo, higuero, higerón*. \_\_SY: \_\_HA: tree to 17 m, at first epiphytic, later independent. \_\_HB: mature forests, coastal fringe. \_\_LO: BH: El Edén. ICT: forest N of the island. \_\_DP: *ca/da/pa*. \_\_AL: 0/1. \_\_WD: Mexico to Paraguay. \_\_US: \_\_VS: 1442 Al, 2144 Al. \_\_Photo: 388

**Ficus costaricana** (Liebm.) Miq.

CN: *higo, higuero, matapalo*. \_\_SY: *Urostigma costaricanum* Liebm. \_\_HA: tree to 25 m, at first epiphytic, later independent. \_\_HB: coastal fringe. \_\_LO: BH: Playa del Sol. ICT: Plot 1. \_\_DP: *bo/ca/cc/da/pa*. \_\_AL: 0. \_\_WD: Mexico to Panama. \_\_US: \_\_VS: 1862 Al, 1960 Al. \_\_Photo:

**Ficus insipida** Willd.

CN: *higerón*. \_\_SY: *Ficus glabrata* Kunth; *Ficus anthermintica* Mart. \_\_HA: tree to 35 m. \_\_HB: secondary forests, frequently on river banks. \_\_LO: BH: surroundings of Salmonete. El Edén Plot. Río Limón. ICT: close to the big *Ceiba with the flag*. Between Playa Naranjo and the most NW point of the island. \_\_DP: *bo/ca/cc/ch/cn/da/pa*.

\_\_AL: 0. \_\_WD: Mexico to N South America. \_\_US: soft wood used for carving boards. The tree is used as ornamental in parks and avenues. It is planted in mixed plantations to help recover degraded lands. Its milky latex has medicinal uses (Pérez & Condit, 2000). \_\_VS: 1359 Al, 16137 SC, 16570 SC, 1818 Al, 1990 Al, 2167 Al, 2256 Al.

\_\_Photo: 389

**Ficus maxima** Mill.

CN: \_\_SY: *Ficus radula* Humb. & Bonpl. ex Willd. \_\_HA: tree to 20 m. \_\_HB: mature and secondary forests. \_\_LO: BH: Río Seco headwaters. El Edén Plot. \_\_DP: *bo/ca/cc/pa*. \_\_AL: 0. \_\_WD: S Mexico to Peru and Brazil; the Greater Antilles. \_\_US: \_\_VS: 2079 Al, 2245 Al, 2269 Al. \_\_Photo:

**Ficus obtusifolia** Kunth

CN: *matapalo*. \_\_SY: *Urostigma involutum* Liebm.; *Ficus involuta* (Liebm.) Miq. \_\_HA: tree to 20 m, at first epiphytic, later independent. \_\_HB: mature forests. \_\_LO: BH: El Edén Plot. Surroundings of Salmonete. ICT: Plot 1. Playa del Cedro. N of the island. \_\_DP: *ca/sa/vr*. \_\_AL: 0/1. \_\_WD: S Mexico to Venezuela, Peru and Brazil. \_\_US: planted as a shade tree (Little & al., 1974). \_\_VS: 16205 SC, 1656 Al, 16575 SC, 1715 Al, 1771 Al, 1853 Al, 1859 Al, 2278 Al. \_\_Photo:

**Ficus yoponensis** Desv.

CN: \_\_SY: \_\_HA: tree to 50 m. \_\_HB: coastal fringe. \_\_LO: ICT. \_\_DP: *ca/ch*. \_\_AL: 0. \_\_WD: S Mexico to Colombia and Venezuela. \_\_US: \_\_VS: 16532 SC. \_\_Photo:

**Ficus sp.1**

CN: \_\_SY: \_\_HA: tree. \_\_HB: scrub. \_\_LO: ICT: path from Playa de los Luchos to N of the island. \_\_DP: \_\_AL: \_\_WD: \_\_US: \_\_VS: 1414 Al. \_\_Photo: 390

**Ficus sp.2**

CN: \_\_SY: \_\_HA: tree. \_\_HB: beaches. \_\_LO: BH: Cativito. \_\_DP: \_\_AL: \_\_WD:  
\_\_US: \_\_VS: 2119 AI. \_\_Photo:

**Ficus sp.3**

CN: \_\_SY: \_\_HA: tree. \_\_HB: mature forests. \_\_LO: ICT: Plot 1. Path from Playa de los Luchos to N of the island. \_\_DP: \_\_AL: \_\_WD: \_\_US: \_\_VS: 1423 AI, 1878 AI.  
\_\_Photo: 391

**Maquira guianensis** ssp. *costaricana* (Standl.) C.C. Berg

CN: *frutas juntas*. \_\_SY: *Maquira costaricana* (Standl.) C.C. Berg; *Perebea costaricana* Standl.; *Perebea trophophylla* Standl. & L.O. Williams \_\_HA: tree to 20 m. \_\_HB: mature and secondary forests. \_\_LO: BH: El Edén Plot. Río Limón. Río Seco headwaters. \_\_DP: bo/ca/da/pa/sa/. \_\_AL: 0. \_\_WD: Nicaragua to Peru. \_\_US: \_\_VS: 1977 AI, 2048 AI, 2252 AI, 2263 AI. \_\_Photo:

**Perebea guianensis** Aubl.

CN: *caucho, cerillo, hule*. \_\_SY: \_\_HA: tree to 30 m. \_\_HB: mature and secondary forests. \_\_LO: BH: surroundings of Playa Limón. El Edén Plot. \_\_DP: bo/ca/pa/sa/. \_\_AL: 0. \_\_WD: Costa Rica to Peru and Bolivia. \_\_US: \_\_VS: 16281 SC, 2222 AI.  
\_\_Photo:

**Sorocea affinis** Hemsl.

CN: *caga hacha, cauchillo, ramoncillo*. \_\_SY: \_\_HA: shrub or tree to 15 m. \_\_HB: mature and secondary forests. \_\_LO: BH: El Edén Plot. Río Seco headwaters. Forest in Playa de Juana. Cativito. ICT: between Playa Naranja and the most NW point of the island. Forest N of the island. \_\_DP: bo/ca/cc/ch/cn/da/pa/sa/vr/. \_\_AL: 0. \_\_WD: Guatemala to Panama and Colombia. \_\_US: \_\_VS: 16122 SC, 1837 AI, 2000 AI, 2071 AI, 2124 AI, 2217 AI. \_\_Photo:

**Trophis racemosa** (L.) Urb.

CN: *azulillo, gallote, lechosa, morillo, ojoche macho, ramón, sweet breadnut*. \_\_SY: *Bucephalon racemosum* L. \_\_HA: tree to 20 m. \_\_HB: mature and secondary forests. \_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. \_\_DP: bo/ca/cc/ch/cn/da/pa/vr/. \_\_AL: 0. \_\_WD: N Mexico to Peru and the Antilles. \_\_US: \_\_VS: 16381 SC. \_\_Photo:

**Mora sp.1**

CN: \_\_SY: \_\_HA: tree. \_\_HB: mature forests. \_\_LO: BH: Río Seco headwaters. \_\_DP: \_\_AL: \_\_WD: \_\_US: \_\_VS: 2061 AI. \_\_Photo:

**Mora sp.2**

CN: \_\_SY: \_\_HA: tree. \_\_HB: mature forests. \_\_LO: BH: Río Seco headwaters. \_\_DP: \_\_AL: \_\_WD: \_\_US: \_\_VS: 2043 AI. \_\_Photo:

**Mora sp.3**

**CN:** \_\_ **SY:** \_\_ **HA:** tree. **HB:** river banks. **LO:** BH: Punta Gorda ridge. Banks of Río Limón. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 1801 AI, 16496b SC. **Photo:**

**Mora sp.4**

**CN:** \_\_ **SY:** \_\_ **HA:** tree. **HB:** mature forests. **LO:** ICT: Plot 1. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 1731 AI. **Photo:**

**Mora sp.5**

**CN:** \_\_ **SY:** \_\_ **HA:** tree. **HB:** mature and secondary forests. **LO:** BH: El Edén Plot. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 2286 AI. **Photo:**

**Mora sp.6**

**CN:** \_\_ **SY:** \_\_ **HA:** tree. **HB:** secondary forests. **LO:** BH: surroundings of Salmonete. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 16556 SC. **Photo:**

**Mora sp.7**

**CN:** \_\_ **SY:** \_\_ **HA:** tree. **HB:** secondary forests. **LO:** BH: between El Suto and Jeringón. El Edén Plot. ICT: Plot 1. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 1857 AI, 2224 AI, 2241a AI, 2250 AI, 16439 SC. **Photo:**

**MUSACEAE**

**Musa x paradisiaca** L.

**CN:** *plátano, guineo, banano.* **SY:** *Musa sapientum* L.; *Musa x paradisiaca* var. *sapientum* (L.) Kuntze **HA:** herb to 7 m. **HB:** cultivated. **LO:** BH: El Edén. **DP:** \_\_ **AL:** \_\_ **WD:** cultivated in all tropics. **US:** fruits edible (BH). **VS:** not collected. **Photo:** 394-395

**MYRISTICACEAE**

**Virola elongata** (Benth.) Warb.

**CN:** \_\_ **SY:** *Myristica elongata* Benth. **HA:** tree to 20 m. **HB:** secondary forests. **LO:** BH: Playa Blanca. **DP:** ca/cn/pa/sa. **AL:** 0. **WD:** Honduras and Panama to Peru and Bolivia. **US:** \_\_ **VS:** 1905 AI. **Photo:**

**Virola koschnyi** Warb.

**CN:** *boga (BH), bogamaní, miguelario, velario, guinnor (K).* **SY:** *Virola merendonis* Pittier **HA:** tree to 35 m. **HB:** mature and secondary forests. **LO:** BH: El Edén Plot. ICT: N of the island. Between Playa Naranjo and the most NW point of the island. **DP:** ch/da/. **AL:** 0. **WD:** Guatemala to Panama. **US:** timber used for boards, light constructions, boxes, furniture, boats, interior decorations, fence posts and paper pulp. Its latex has medicinal use for kuna Indians (Pérez & Condit, 2002). Used to stimulate haemoglobin production (Paredes & Herrera, 1997). **VS:** 16113 SC, 16210 SC, 2255 AI. **Photo:**

**Virola sebifera** Aubl.

**CN:** *boga (BH), bogamaní, fruta dorada, malagueta de montaña, miguelario, velario colorado.* **SY:** \_\_ **HA:** tree to 25 m. **HB:** mature and secondary forests. **LO:** BH:

El Edén Plot. ICT: between Playa Naranjo and the most NW point of the island. Plot 1.  
\_\_DP: bo/ca/ch/cn/da/pa/. \_\_AL: 0. \_\_WD: Nicaragua to Amazonia. \_\_US: the wood is heavy and used in interior constructions. Natives from Colombian and Brazilian Amazon prepare an hallucinogen from its bark, called “yakeé in Colombia and “paricá” in Brazil (Pérez & Condit, 2002). \_\_VS: 16098 SC, 1850 AI, 2171 AI. \_\_Photo:

#### MYRSINACEAE

##### **Ardisia granatensis** Mez

CN: \_\_SY: \_\_HA: shrub. \_\_HB: mangrove edge. \_\_LO: BH: Punta Gorda ridge. \_\_DP: da/. \_\_AL: 0. \_\_WD: Panama and Colombia. \_\_US: \_\_VS: 16511 SC. \_\_Photo:

##### **Ardisia guianensis** (Aubl.) Mez

CN: \_\_SY: *Icacorea guianensis* Aubl.; *Icacorea acuminata* (Willd.) Lundell; *Icacorea amanuensis* (Lundell) Lundell; *Icacorea cookii* (Lundell) Lundell \_\_HA: shrub. \_\_HB: mature and secondary forests, scrub. \_\_LO: BH: Punta Gorda ridge. ICT: forest N of the island. N of the island. Plot 1. Path from JP's house to Playa del Laboratorio. Path from Playa del Laboratorio to the Lab. Path from Playa de los Luchos to N of the island. \_\_DP: bo/ca/pa/sa/. \_\_AL: 0. \_\_WD: Mesoamerica, N South America and the Antilles. \_\_US: \_\_VS: 1427 AI, 1503 AI, 16033 SC, 16182 SC, 16504 SC, 1864 AI, 1999 AI. \_\_Photo: 397-398

##### **Ardisia revoluta** Kunth

CN: *fruta de pava, margarita, uvito.* \_\_SY: *Icacorea revoluta* (Kunth) Standl.; *Ardisia bracteosa* A. DC.; *Ardisia scoparia* Mez; *Ardisia scopulina* Brandegee; *Tinus revoluta* (Kunth) Kuntze \_\_HA: shrub or tree to 18 m. \_\_HB: mature forests. \_\_LO: BH: in the way to Río Seco headwaters. \_\_DP: ca/ch/lo. \_\_AL: 2. \_\_WD: Mexico to Panama, possibly Colombia. \_\_US: edible (Stevens & al., 2001). \_\_VS: 2097 AI. \_\_Photo:

##### **Stylogyne turbacensis** ssp. *laevis* (Oerst.) Ricketson & Pipoly

CN: *uvito.* \_\_SY: *Ardisia turbacensis* Kunth \_\_HA: shrub or tree to 30 m. \_\_HB: forests, scrub, coastal fringe. \_\_LO: BH: surroundings of Salmonete. Surroundings of Playa Limón. Río Luis plains. ICT: Plot 1. From Naranjo Amargo to Playa de los Luchos. \_\_DP: bo/ca/cc/ch/he/lo/vr/pa/da/. \_\_AL: 0. \_\_WD: Mexico (Chiapas) to Venezuela. \_\_US: \_\_VS: 1556 AI, 1606 AI, 16278 SC, 16559 SC, 1791 AI, 1863 AI. \_\_Photo: 399-400

#### MYRTACEAE

##### **Eugenia sp.1**

CN: \_\_SY: \_\_HA: shrub. \_\_HB: secondary forests. \_\_LO: ICT: N of the island. \_\_DP: \_\_AL: \_\_WD: \_\_US: \_\_VS: 16218 SC. \_\_Photo:

##### **Eugenia sp.2**

CN: \_\_SY: \_\_HA: shrub. \_\_HB: secondary forests. \_\_LO: BH: between El Suto and Jeringón. \_\_DP: \_\_AL: \_\_WD: \_\_US: \_\_VS: 16421 SC. \_\_Photo:

##### **Myrcia splendens** (Sw.) DC.

**CN:** \_\_**SY:** *Myrtus splendens* Sw.; *Myrcia rufidula* Schtdl.; *Myrcia costaricensis* O. Berg; *Myrcia discolor* O. Berg; *Myrcia sartoriana* O. Berg; *Myrcia longicaudata* Lundell; *Myrcia schippii* Lundell \_\_**HA:** shrub or tree to 10 m. \_\_**HB:** mature and secondary forests, scrub, coastal fringe. \_\_**LO:** BH: El Edén Plot. From Playa del Sol to El Edén. ICT: Plot 1. Path from Playa de los Luchos to N of the island. \_\_**DP:** cc/ch/cn/da/he/lo/pa/. \_\_**AL:** 0/1. \_\_**WD:** S Mexico to South America; the Antilles. \_\_**US:** long-lasting wood used for posts (Little & Wadsworth, 1964). \_\_**VS:** 16036 SC, 1667 AI, 1693 AI, 1873 AI, 2280 AI. \_\_**Photo:**

**Myrciaria floribunda** (H. West ex Willd.) O. Berg

**CN:** *guayabo de sabana* (BH). \_\_**SY:** *Eugenia floribunda* H. West ex Willd.; *Eugenia oneillii* Lundell; *Myrciaria oneillii* (Lundell) I.M. Johnst.; *Myrciaria mexicana* Lundell \_\_**HA:** shrub or tree to 15 m. \_\_**HB:** mature and secondary forests. \_\_**LO:** ICT: forest N of the island. N of the island. \_\_**DP:** ca/cc/ch/da/lo/pa/. \_\_**AL:** 0. \_\_**WD:** Mexico to Brazil and Peru; the Antilles. \_\_**US:** fruits used to make jams (Little & al., 1974). \_\_**VS:** 1446 AI, 16172 SC, 16181 SC. \_\_**Photo:**

**Plinia povedae** P.E. Sánchez

**CN:** \_\_**SY:** \_\_**HA:** shrub or tree to 7 m. \_\_**HB:** secondary forests. \_\_**LO:** BH: Punta Gorda ridge. Between El Suto and Jeringón. \_\_**DP:** vr/pa/. \_\_**AL:** 0. \_\_**WD:** Nicaragua to Panama. \_\_**US:** \_\_**VS:** 16416 SC, 16491 SC. \_\_**Photo:** 404 (SC)

**Psidium guajava** L.

**CN:** *guayaba* (BH), *guayabo agrío*, *purijo*, *guava*. \_\_**SY:** \_\_**HA:** tree to 10 m. \_\_**HB:** cultivated. \_\_**LO:** BH: surroundings of Salmonete. \_\_**DP:** bo/ca/cc/ch/da/he/lo/pa/sa/. \_\_**AL:** 0. \_\_**WD:** United States (Florida) to tropical South America; also in the Antilles; naturalized and cultivated in the Old World tropics. \_\_**US:** to treat diarrhoea and diabetes (Gupta, 1995). Fruits edible (Stevens & al., 2001). Tannins are extracted from its bark (Little & Wadsworth, 1964). \_\_**VS:** not collected. \_\_**Photo:**

**Syzygium jambos** (L.) Alston

**CN:** *pomarrosa*, *rose apple*. \_\_**SY:** *Eugenia jambos* L.; *Jambosa vulgaris* DC. \_\_**HA:** tree to 30 m. \_\_**HB:** cultivated. \_\_**LO:** BH: surroundings of Salmonete. \_\_**DP:** bo/ca/ch/cn/pa/. \_\_**AL:** 0/1/2. \_\_**WD:** native to the Indo-Malaysian region but cultivated pantropically. \_\_**US:** ornamental tree. Fruits are edible and used to make jams (Little & Wadsworth, 1964). \_\_**VS:** 16563 SC. \_\_**Photo:**

**Syzygium malaccense** (L.) Merr. & L.M. Perry

**CN:** *marañón curasao*, *malay apple*. \_\_**SY:** *Eugenia malaccensis* L.; *Jambosa malaccensis* (L.) DC.; *Jambosa malaccensis* (L.) DC. \_\_**HA:** tree to 20 m. \_\_**HB:** cultivated. \_\_**LO:** BH: Cativito. Surroundings of Playa Limón. \_\_**DP:** da/vr/. \_\_**AL:** 0. \_\_**WD:** native to the Indo-Malaysian region but cultivated pantropically. \_\_**US:** ornamental tree and edible fruits (Little & Wadsworth 1964). \_\_**VS:** 16275 SC, 2126 AI. \_\_**Photo:**

**Myrt sp.2**

**CN:** \_\_**SY:** \_\_**HA:** tree. \_\_**HB:** mature and secondary forests. \_\_**LO:** BH: Punta Gorda ridge. \_\_**DP:** \_\_**AL:** \_\_**WD:** \_\_**US:** \_\_**VS:** 16489 SC. \_\_**Photo:**



**Myrt sp.4**

**CN:** \_\_ **SY:** \_\_ **HA:** tree. **HB:** mature and secondary forests. **LO:** BH: between El Suto and Jeringón. ICT: path from Playa de los Luchos to N of the island. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 1402 AI, 16409 SC. **Photo:**

**Myrt sp.15**

**CN:** \_\_ **SY:** \_\_ **HA:** tree. **HB:** scrub. **LO:** BH: Punta Gorda ridge. From Jeringuita to Jeringón. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 2017 AI, 16456 SC. **Photo:**

**Myrt sp.16**

**CN:** \_\_ **SY:** \_\_ **HA:** tree. **HB:** secondary forests. **LO:** ICT: N of the island. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 16214 SC. **Photo:**

**Myrt sp.17**

**CN:** \_\_ **SY:** \_\_ **HA:** tree. **HB:** river banks. **LO:** BH: banks of Río Limón. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 1805 AI. **Photo:**

**NYCTAGINACEAE**

**Guapira costaricana** (Standl.) Woodson

**CN:** *Ilanto, mala sombra*. **SY:** *Torrubia costaricana* Standl.; *Guapira linearibracteata* (Heimerl) Lundell; *Torrubia linearibracteata* (Heimerl) Standl.; *Pisonia linearibracteata* Heimerl; *Guapira itzana* Lundell **HA:** tree to 15 m. **HB:** secondary forests, river banks. **LO:** BH: El Edén Plot. Banks of Río Limón. ICT: Playa del Laboratorio to Train Station. "Sangrillal" edge in Playa del Laboratorio. From Naranja Amargo to Playa de los Luchos. N of the island. **DP:** bo/ca/cc/ch/cn/da/lo/pa/. **AL:** 0/1. **WD:** Mexico to Panama. **US:** \_\_ **VS:** 1569 AI, 16217 SC, 1703 AI, 1712 AI, 1800 AI, 1974 AI, 2235 AI, 2284 AI. **Photo:**

**OCHNACEAE**

**Ouratea lucens** (Kunth) Engl.

**CN:** *lazito, caidita, wild pigeon plum*. **SY:** *Gomphia lucens* Kunth; *Stenouratea wrightii* Tiegh.; *Ouratea wrightii* (Tiegh.) L. Riley **HA:** shrub or tree to 7 m. **HB:** mature and secondary forests. **LO:** ICT: between Playa Naranja and the most NW point of the island. Path close to the Lab. **DP:** bo/ca/cc/ch/da/he/lo/pa/sa/. **AL:** 0. **WD:** Mexico to Colombia. **US:** \_\_ **VS:** 1349 AI, 16119 SC. **Photo:** 406-407

**OLACACEAE**

**Heisteria concinna** Standl.

**CN:** *ajicillo, naranjillo, sombrero grande*. **SY:** \_\_ **HA:** tree to 20 m. **HB:** mature forests. **LO:** BH: El Edén Plot. ICT: Plot 1. Path from Playa del Laboratorio to Train Station. **DP:** ca/ch/cn/da/he/lo/pa/vr/. **AL:** 0. **WD:** Costa Rica to Colombia and Ecuador. **US:** wood is heavy and used to make handles for tools, coachwork and industrial floors (Pérez & Condit, 2002). **VS:** 1494 AI, 1728 AI, 1745 AI, 1755 AI, 1868 AI, 2199 AI, 2273 AI. **Photo:** 408-409

**Ximenesia americana** L.

**CN:** *jobito amarillo, manzanillo*. **SY:** **HA:** shrub. **HB:** beaches. **LO:** BH: Playa del Sol. Surroundings of Playa Limón. ICT: Playa del Laboratorio. **DP:** bo/ca/ch/da/he/pa/. **AL:** 0. **WD:** almost cosmopolitan in tropical and subtropical regions. **US:** **VS:** 16306 SC, 1788 AI, 1961 AI. **Photo:**

ONAGRACEAE

**Ludwigia octovalvis** (Jacq.) P.H. Raven

**CN:** *clavito, hierba de clavo*. **SY:** *Oenothera octovalvis* Jacq.; *Jussiaea octovalvis* (Jacq.) Sw. **HA:** herb. **HB:** humid places, scrub. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. Punta Gorda ridge. Surroundings of Salmonete. **DP:** bo/ca/cc/ch/cn/da/pa/. **AL:** 0. **WD:** widely distributed in all tropics. **US:** decoction of the roots used to treat fever and bladder infections (Zapata, 1995). **VS:** 1618 AI, 1635 AI, 16514 SC, 16561 SC. **Photo:** 410-411

ORCHIDACEAE

**Bletia purpurea** (Lam.) DC.

**CN:** **SY:** *Limodorum purpureum* Lam. **HA:** terrestrial herb. **HB:** scrub, coastal fringe. **LO:** ICT: path from Playa de los Luchos to N of the island. **DP:** cc/pa/. **AL:** 0. **WD:** United States (Florida) to N South America and the Antilles. **US:** **VS:** 1691 AI. **Photo:**

**Brassavola acaulis** Lindl.

**CN:** **SY:** **HA:** epiphyte. **HB:** coastal fringe. **LO:** BH: from Jeringuita to Jeringón. **DP:** ch/. **AL:** 1. **WD:** Panama. **US:** **VS:** 2023 AI. **Photo:** 412 (AE)

**Catasetum viridiflavum** Hook.

**CN:** *zapatito (BH), achimba de perro, cara de mono, zapato holandés*. **SY:** **HA:** epiphyte. **HB:** beaches, forests. **LO:** BH: surroundings of Playa Limón. ICT: between Playa Naranjo and the most NW point of the island. **DP:** ca/cc/cn/pa/vr/. **AL:** 0. **WD:** Panama and Peru?. **US:** **VS:** 16126 SC, 16263 SC, 1991 AI. **Photo:** 413 (AE)

**Dichaea panamensis** Lindl.

**CN:** **SY:** *Dichaeopsis panamensis* (Lindl.) Schltr.; *Epithecia panamensis* (Lindl.) Schltr. **HA:** epiphyte. **HB:** forests. **LO:** BH: surroundings of Playa Limón. **DP:** bo/ca/cc/cn/pa/vr/. **AL:** 0. **WD:** Mexico to Peru. **US:** **VS:** 16269 SC. **Photo:**

**Epidendrum** sp.1

**CN:** **SY:** **HA:** epiphyte. **HB:** beaches. **LO:** ICT. **DP:** **AL:** **WD:** **US:** **VS:** 16536 SC. **Photo:**

**Lockhartia micrantha** Rchb. f.

**CN:** \_\_ **SY:** *Lockhartia chiriquiensis* Schltr.; *Lockhartia lankesteri* Ames \_\_ **HA:** epiphyte.  
\_\_ **HB:** beaches, coastal fringe. \_\_ **LO:** BH: Playa del Sol. Lerencito. Domingo's house.  
\_\_ **DP:** ca/cc/ch/pa/vr/. \_\_ **AL:** 0/1. \_\_ **WD:** Nicaragua to Colombia and Venezuela.  
\_\_ **US:** \_\_ **VS:** 1673 AI, 16142 SC. \_\_ **Photo:** 414-415-416

**Maxillaria crassifolia** (Lindl.) Rchb. f.

**CN:** \_\_ **SY:** *Heterotaxis crassifolia* Lindl.; *Maxillaria gatunensis* Schltr. \_\_ **HA:** epiphyte.  
\_\_ **HB:** forests. \_\_ **LO:** BH: Playa del Sol. \_\_ **DP:** bo/ca/ch/da/pa/. \_\_ **AL:** 0/1. \_\_ **WD:**  
United States (Florida) and Mexico to South America and the Antilles. \_\_ **US:** \_\_ **VS:**  
16149 SC. \_\_ **Photo:**

**Oncidium ampliatum** Lindl.

**CN:** \_\_ **SY:** *Oncidium bernoullianum* Kraenzl. \_\_ **HA:** epiphyte. \_\_ **HB:** coastal fringe,  
mature and secondary forests. \_\_ **LO:** ICT: Playa de los Luchos. From Naranjo Amargo  
to Playa de los Luchos. \_\_ **DP:** ca/cc/pa/vr/. \_\_ **AL:** 0. \_\_ **WD:** Guatemala to Panama,  
Venezuela to Peru and also in Trinidad. \_\_ **US:** \_\_ **VS:** 1558 AI, 1582 AI. \_\_ **Photo:** 417-  
418-419-420-421-422

**Polystachya foliosa** (Lindl.) Rchb. f.

**CN:** \_\_ **SY:** *Stelis foliosa* Lindl.; *Polystachya cerea* Lindl.; *Polystachya costaricensis*  
Schltr.; *Polystachya minor* Fawc. & Rendle; *Polystachya panamensis* Schltr.;  
*Polystachya powellii* Ames \_\_ **HA:** epiphyte. \_\_ **HB:** forests. \_\_ **LO:** ICT: top of the  
island. \_\_ **DP:** ca/cc/ch/pa/. \_\_ **AL:** 0/1. \_\_ **WD:** Mexico to South America and the  
Antilles. \_\_ **US:** \_\_ **VS:** 16066 SC. \_\_ **Photo:**

**Prosthechea fragrans** (Sw.) W.E. Higgins

**CN:** \_\_ **SY:** *Encyclia fragrans* (Sw.) Lemée; *Epidendrum fragrans* Sw.; *E. lineatum*  
Salisb.; *E. vaginatum* Sessé & Moç.; *E. fragrans* var. *pachypus* Schltr.; *Anacheilium*  
*fragrans* (Sw.) Acuña. \_\_ **HA:** epiphyte. \_\_ **HB:** forests. \_\_ **LO:** ICT: on the railway track  
from Playa de la Estación del Tren to JP's house. \_\_ **DP:** ca/cc/cn/pa/sa/vr/ch/. \_\_ **AL:**  
0. \_\_ **WD:** Mexico to N South America and the Antilles. \_\_ **US:** \_\_ **VS:** 1879 AI. \_\_ **Photo:**

**Scaphyglottis behrii** (Rchb. f.) Benth. & Hook. f. ex Hemsl.

**CN:** \_\_ **SY:** *Ponera behrii* Rchb. f.; *Ponera albida* Rchb. f.; *Scaphyglottis pauciflora*  
Schltr.; *Scaphyglottis albida* (Rchb. f.) Schltr.; *Scaphyglottis stenotepala* (Rchb. f.) C.  
Schweinf.; *Scaphyglottis stenotepala* (Rchb. f.) C. Schweinf. \_\_ **HA:** epiphyte. \_\_ **HB:**  
coastal fringe. \_\_ **LO:** ICT: Playa del Naranjo. \_\_ **DP:** cc/cn/pa/. \_\_ **AL:** 0. \_\_ **WD:** S  
Mexico to Colombia and Venezuela. \_\_ **US:** \_\_ **VS:** 1790 AI. \_\_ **Photo:**

**Scaphyglottis boliviensis** (Rolfe) B.R. Adams

**CN:** \_\_ **SY:** *Hexadesmia boliviensis* Rolfe; *Scaphyglottis huebneri* Schltr. \_\_ **HA:**  
epiphyte. \_\_ **HB:** forests. \_\_ **LO:** BH: Punta Gorda ridge. \_\_ **DP:** pa/da/sa/. \_\_ **AL:** 0/1.  
\_\_ **WD:** Nicaragua to Panama, Venezuela to Brazil and Bolivia. \_\_ **US:** \_\_ **VS:** 16502  
SC. \_\_ **Photo:**

**Sobralia decora** Bateman

**CN:** \_\_ **SY:** \_\_ **HA:** epiphyte. **HB:** coastal fringe. **LO:** BH: Lerencito. Domingo's house. **DP:** cc/da/pa/. **AL:** 0. **WD:** Mexico to Colombia. **US:** \_\_ **VS:** 1674 Al. **Photo:** 423-424-425

**Sobralia fragans** Lindl.

**CN:** \_\_ **SY:** *Sobralia eublepharis* Rchb. f. ex Kraenzl. **HA:** epiphyte. **HB:** forests. **LO:** BH: in the way to Río Seco headwaters. **DP:** ca/cc/ch/da/pa/vr/. **AL:** 0. **WD:** Mexico to Panama and Venezuela to Ecuador. **US:** \_\_ **VS:** 2090 Al. **Photo:** \_\_

**Trigonidium egertonianum** Bateman ex Lindl.

**CN:** \_\_ **SY:** \_\_ **HA:** epiphyte. **HB:** coastal fringe. **LO:** BH: Playa del sol. **DP:** bo/ca/cc/cn/da/pa/vr/. **AL:** 0. **WD:** Mexico to N South America. **US:** \_\_ **VS:** 1774 Al, 1886 Al. **Photo:** \_\_

**Vanilla pompona** Schiede

**CN:** *vainilla*. **SY:** *Vanilla grandiflora* Lindl.; *Vanilla pittieri* Schltr. **HA:** epiphytic vine. **HB:** secondary forests. **LO:** BH: from Playa Jeringuita to Playa Blanca. **DP:** ca/pa. **AL:** 0. **WD:** Mexico to Bolivia and Brazil; the Antilles. **US:** vanilla is obtained from its fruits (León & Poveda, 2000). **VS:** 1929 Al. **Photo:** 426-427-428 (AE)

PASSIFLORACEAE

**Passiflora biflora** Lam.

**CN:** *ñorbo*, *guate-guate*, *camacarlata*, *calzoncillo*. **SY:** *Passiflora lunata* var. *costata* Mast. **HA:** vine. **HB:** scrub. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** bo/ca/cc/ch/cn/da/lo/pa/sa /vr. **AL:** 0/1. **WD:** Mexico and the Antilles to Venezuela. **US:** used as a circulatory stimulant and to prevent heart disorders (Zapata, 1995). **VS:** 16363 SC. **Photo:** \_\_

**Passiflora pittieri** Mast.

**CN:** \_\_ **SY:** \_\_ **HA:** vine. **HB:** coastal fringe. **LO:** ICT: Plot 1. **DP:** ch/vr/da/. **AL:** 0. **WD:** Belize to Bolivia. **US:** \_\_ **VS:** 1872 Al. **Photo:** \_\_

**Passiflora platyloba** var. **williamsii** (Killip) A.H. Gentry

**CN:** \_\_ **SY:** *Passiflora williamsii* Killip **HA:** vine. **HB:** coastal fringe. **LO:** BH: Cativito. **DP:** ca/cc/da/lo/pa/. **AL:** 0. **WD:** Panama. **US:** \_\_ **VS:** 2117 Al. **Photo:** \_\_

**Passiflora quadrangularis** L.

**CN:** *granadilla*, *liman goi* (G). **SY:** \_\_ **HA:** vine. **HB:** forest gaps. **LO:** BH: surroundings of Playa Limón. El Edén. **DP:** bo/ca/cc/ch/cn/pa/vr/. **AL:** 0. **WD:** native range unclear, probably Honduras to Bolivia. **US:** fruits are used to prepare drinks and cakes (León & Poveda, 2000). To treat heart attacks, fractures, muscular pains and cramps (Zapata, 1995). Anti-inflammatory (Joly & al., 1987). **VS:** 1484 Al, 16294 SC. **Photo:** 429

PHYTOLACACEAE

**Microtea debilis** Sw.

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** open areas. **LO:** BH: Managua Island. **DP:** bo/ca/da/pa/. **AL:** 0. **WD:** Guatemala to South America and the Antilles. **US:** \_\_ **VS:** 16239 SC. **Photo:** \_\_

PICRAMNIACEAE

**Picramnia gracilis** Tul.

**CN:** *korbugia*. **SY:** *Picramnia dwyeri* D.M. Porter **HA:** shrub. **HB:** mature forests. **LO:** BH: between El Suto and Jeringón. Playa de Lerencito. **DP:** ca/da/pa/sa/vr/ch/. **AL:** 0. **WD:** Costa Rica to Colombia. **US:** \_\_ **VS:** 1478 AI, 16440 SC. **Photo:** 430

**Picramnia latifolia** Tul.

**CN:** *canjura*, *bichichi*. **SY:** *Picramnia cooperi* D.M. Porter; *Picramnia umbrosa* Seem. **HA:** shrub or tree to 10 m. **HB:** mature and secondary forests. **LO:** BH: Cativito. **ICT:** from Naranjo Amargo to Playa de los Luchos. Between Playa Naranjo and the most NW point of the island. **DP:** bo/ca/ch/da/lo/pa/sa/vr/. **AL:** 0. **WD:** Costa Rica to Bolivia. **US:** \_\_ **VS:** 1568 AI, 16088 SC, 2110 AI. **Photo:** 431

PIPERACEAE

**Peperomia angustata** Kunth

**CN:** \_\_ **SY:** *Peperomia victoriana* C. DC.; *Piper angustata* (Kunth) Poir.; *Peperomia viridispica* Trel.; *P. victoriana* var. *margaritana* C. DC., *P. angustata* var. *satomartae* C. DC.; ; *Peperomia martagonifolia* C. DC. ex A. Schroed. **HA:** scandent epiphyte. **HB:** mature and secondary forests. **LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. Between Playa del Sol and Salmonete, Río Luis area. **DP:** ca/ch/pa. **AL:** 1/2. **WD:** S Belize to N Colombia and Venezuela. **US:** \_\_ **VS:** 1625 AI, 16374 SC. **Photo:** 432

**Peperomia mameiana** C. DC. ex A. Schroed.

**CN:** \_\_ **SY:** *Peperomia williamsii* Trel.; *Peperomia flavispica* Trel. **HA:** scandent epiphyte. **HB:** mature and secondary forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** ca/cc/ch/cn/da/lo/pa/vr/. **AL:** 0. **WD:** Costa Rica and Panama. **US:** \_\_ **VS:** 16382 SC. **Photo:** \_\_

**Peperomia pellucida** (L.) Kunth

**CN:** \_\_ **SY:** *Piper pellucidum* L.; *Peperomia translucens* Trel. **HA:** scandent epiphyte. **HB:** mature and secondary forests. **LO:** BH: Managua Island. **DP:** bo/ca/cn/da/lo/pa/sa/. **AL:** 0/1/2. **WD:** tropical America, introduced in Asia, Africa and Madagascar. **US:** to treat skin and eye problems (León & Poveda, 2000). **VS:** 16238 SC. **Photo:** \_\_

**Peperomia rotundifolia** (L.) Kunth

**CN:** *poleo*, *hierba de sapo*. **SY:** *Piper rotundifolium* L.; *Peperomia cruentata* Trel.; *Peperomia tenuicaulis* C. DC.; *P. nummularifolium* Sw., *Peperomia nummularifolia*

(Sw.) Kunth; *P. rotundifolia* var. *ovata* (Dahlst.) C. DC.; *P. rotundifolia* f. *ovata* Dahlst.  
\_\_HA: scandent epiphyte. \_\_HB: mature and secondary forests. \_\_LO: BH: Punta Gorda ridge. Playa de Lerencito. \_\_DP: bo/ca/cc/ch/cn/da/lo/pa/vr/. \_\_AL: 0/1. \_\_WD: tropical America. \_\_US: in Nicaragua, an extract from the leaves is used to relieve pain in cases of centipede bite (Stevens & al., 2001). \_\_VS: 1465 AI, 16497 SC. \_\_Photo: 433-434

#### **Piper aduncum** L.

CN: *cordoncillo*, *gusanillo*, *mático*, *pasmo*, *wild pepper*. \_\_SY: *Piper aduncum* var. *brachyarthrum* (Trel.) Yunck.; *Artanthe adunca* (L.) Miq., *Piper aduncifolium* Trel.  
\_\_HA: shrub. \_\_HB: scrub. \_\_LO: BH: from Playa Jeringuita to Playa Blanca. ICT: path close to the Lab. \_\_DP: bo/ca/cc/ch/cn/da/he/lo/pa/vr/. \_\_AL: 0/1. \_\_WD: tropical America; introduced in Asia and S United States. \_\_US: in Brazil it is used to treat toothache, stomach problems, as a diuretic, carminative, digestive stimulant and in cases of ulcers (Gupta, 1995). \_\_VS: 1357 AI, 16042 SC, 1909 AI. \_\_Photo: 435

#### **Piper aequale** Vahl

CN: *hinojillo chico*, *hinojillo murciélago*. \_\_SY: *Piper dunlapii* Trel.; *Piper perlasense* Yunck.; *Piper chiriquinum* C. DC.; *Piper costaricense* C. DC., *Piper micrantherum* C. DC., *Piper mombachanum* C. DC., *Piper epilosipes* Trel. \_\_HA: shrub. \_\_HB: mature and secondary forests. \_\_LO: BH: Río Seco headwaters. Punta Gorda ridge. ICT: between Playa Naranjo and the most NW point of the island. From Naranjo Amargo to Playa de los Luchos. Rivulet at point 135, going to Plot 1. \_\_DP: bo/ca/cc/ch/cn/da/lo/pa/vr/. \_\_AL: 0/1. \_\_WD: NE Honduras to SE Brazil. \_\_US: \_\_VS: 1571 AI, 16084 SC, 16476 SC, 1696 AI, 2062 AI. \_\_Photo: 436

#### **Piper arboreum** Aubl.

CN: \_\_SY: *Piper arboreum* var. *falcifolium* (Trel.) Yunck.; *Piper arboreum* var. *hirtellum* Yunck.; *Piper macrophyllum* Sw.; *Piper crassicaule* Trel.; *Piper barriosense* Trel. & Standl. \_\_HA: shrub or tree to 5 m. \_\_HB: scrub. \_\_LO: BH: path from Limón to El Edén. \_\_DP: ch/cc/cn/lo/ca/pa/sa. \_\_AL: 0/1. \_\_WD: tropical America. \_\_US: \_\_VS: 1811 AI. \_\_Photo:

#### **Piper colonense** C. DC.

CN: *hinojillo peludo*. \_\_SY: *Piper culebranum* C.DC. ex Schroed.; *Piper oblanceolatum* Trel. \_\_HA: shrub. \_\_HB: scrub. \_\_LO: ICT: close to JP's house. \_\_DP: ch/cn/pa/. \_\_AL: 0/1. \_\_WD: N Nicaragua to SW Panama. \_\_US: \_\_VS: 1355 AI. \_\_Photo:

#### **Piper darienense** C. DC.

CN: *barbasco*, *duerme boca*, *gusanillo*. \_\_SY: *Piper acuminatissimum* C. DC. \_\_HA: herb. \_\_HB: mature and secondary forests. \_\_LO: BH: in the way to Río Seco headwaters. Punta Gorda ridge. \_\_DP: bo/ca/ch/da/pa/sa/. \_\_AL: 0. \_\_WD: S Nicaragua to Colombia. \_\_US: roots used as a strong anesthetic for toothaches (Stevens & al., 2001). \_\_VS: 16493 SC, 2036 AI. \_\_Photo:

#### **Piper grande** Vahl

CN: \_\_SY: *Piper marmoreum* Trel.; *Piper pseudovariabile* Trel.; *Shilleria riparia* (Kunth) Kunth; *Arthanthe grandifolia* (Kunth) Miq.; *Piper subvariabile* Trel. \_\_HA: shrub. \_\_HB: secondary forests. \_\_LO: BH: Punta Gorda ridge. Between El Suto and Jeringón.

\_\_\_DP: ca/cc/ch/cn/da/lo/pa/sa/vr/. \_\_\_AL: 0. \_\_\_WD: Nicaragua to Colombia, Ecuador, Venezuela and the Guianas. \_\_\_US: \_\_\_VS: 16422 SC, 16494b SC. \_\_\_Photo:

**Piper marginatum** Jacq.

CN: *aniseto, anisillo, hinojo, moncá chiquito*. \_\_\_SY: *Piper marginatum* var. *marginatum*; *Piper marginatum* var. *anisatum* (Kunth) C. DC.; *Piper marginatum* var. *catalpaefolium* (Kunth) C. DC.; *Piper san-joseanum* C. DC. \_\_\_HA: shrub. \_\_\_HB: secondary forests.

\_\_\_LO: ICT: N of the island. \_\_\_DP: ca/cc/ch/cn/da/he/lo/pa/sa/vr/. \_\_\_AL: 0. \_\_\_WD: tropical America. \_\_\_US: carminative, appetite stimulant, diuretic, haemostatic, emmenagogue, to treat headaches, eye problems, colds and fevers (Zapata, 1995). Also used to treat nasal haemorrhages and amoebiasis (Gupta, 1995). \_\_\_VS: 16225 SC. \_\_\_Photo:

**Piper peltatum** L.

CN: *hinojo, doncella, Santa María, pata de burro*. \_\_\_SY: *Pothomorphe peltata* (L.) Miq. \_\_\_HA: shrub. \_\_\_HB: mature and secondary forests. \_\_\_LO: BH: Punta Gorda ridge. \_\_\_DP: bo/ca/cc/ch/cn/da/lo/pa/sa/. \_\_\_AL: 0/1. \_\_\_WD: tropical America. \_\_\_US: \_\_\_VS: 16474 SC. \_\_\_Photo:

**Piper pinoganense** Trel.

CN: \_\_\_SY: \_\_\_HA: shrub. \_\_\_HB: mature and secondary forests. \_\_\_LO: BH: surroundings of Playa Limón. ICT: between Playa Naranjo and the most NW point of the island. \_\_\_DP: ca/ch/da/lo/. \_\_\_AL: 0. \_\_\_WD: Panama. \_\_\_US: \_\_\_VS: 16138 SC, 16267 SC. \_\_\_Photo:

**Piper pseudofuliginum** C. DC.

CN: \_\_\_SY: *Piper toboganum* C. DC.; *Piper breve* C. DC. ex Trel.; *Piper canyazasense* Trel.; *Piper chagresianum* Trel.; *Piper quadratilimum* Trel. \_\_\_HA: shrub. \_\_\_HB: mature and secondary forests, scrub. \_\_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. Between El Suto and Jeringón. Punta Gorda ridge. ICT: N of the island. Path from JP's house to the Lab. \_\_\_DP: cc/pa/. \_\_\_AL: 0/1/3. \_\_\_WD: S Mexico to Colombia and Venezuela. \_\_\_US: \_\_\_VS: 1495 Al, 16199 SC, 16349 SC, 16399 SC, 16458 SC. \_\_\_Photo: 437-438

**Piper sancti-felicis** Trel.

CN: \_\_\_SY: *Piper variitrichum* Yunck. \_\_\_HA: shrub. \_\_\_HB: secondary forests. \_\_\_LO: BH: Punta Gorda ridge. \_\_\_DP: bo/ch/he/vr/cc/pa/da. \_\_\_AL: 0. \_\_\_WD: S Mexico to Colombia, Ecuador and Peru. \_\_\_US: \_\_\_VS: 16477 SC. \_\_\_Photo:

**Piper schiedeanum** Steud.

CN: \_\_\_SY: *Piper carrilloanum* C. DC.; *Piper casimirianum* Hemsl. \_\_\_HA: shrub. \_\_\_HB: river banks. \_\_\_LO: BH: Punta Gorda ridge. El Edén. From Limón to El Edén. ICT: between Playa Naranjo and the most NW point of the island. \_\_\_DP: bo/ch/ca/pa/da/. \_\_\_AL: 0/1. \_\_\_WD: S Guatemala to SE Venezuela and Ecuador. \_\_\_US: \_\_\_VS: 1488 Al, 16116 SC, 16472 SC, 1550 Al. \_\_\_Photo: 439-440

POACEAE

**Aristida capillacea** Lam.

**CN:** *lana de ratón, lanita de ratón, pajita del Niño de Dios.* **SY:** **HA:** herb. **HB:** scrub, open areas. **LO:** ICT: close to JP's house. **DP:** ca/cc/ch/pa/. **AL:** 0. **WD:** Mexico to Bolivia, Brazil and Argentina. **US:** **VS:** 1366 Al. **Photo:** 444

**Arundinella deppeana** Nees ex Steud.

**CN:** *cola de venado, cola venao, cola de zorro.* **SY:** **HA:** herb. **HB:** scrub, open areas. **LO:** ICT: path from Playa de los Luchos to N of the island. **DP:** ca/cc/ch/pa/. **AL:** 0/1. **WD:** Mexico to Brazil, Paraguay and the Antilles. **US:** **VS:** 1699 Al. **Photo:**

**Bambusa vulgaris** Schrad. ex J.C. Wendl.

**CN:** *bambú, cañaza, bambú domestico, bambú amarillo.* **SY:** **HA:** herb. **HB:** scrub, open areas. **LO:** BH: Playa del Sol. **DP:** ca/. **AL:** 0. **WD:** native to Asia; widely cultivated in all tropics and subtropics. **US:** used in wall and roof in thatched huts (ranchos). Also to make furniture, flower arrangements and decorations (Santana, 1998). **VS:** 16453 SC. **Photo:**

**Chusquea? sp.1**

**CN:** **SY:** **HA:** herb. **HB:** scrub **LO:** BH: surroundings of Salmonete. **DP:** **AL:** **WD:** **US:** **VS:** 16574 SC. **Photo:**

**Echinochloa polystachya** (Kunth) Hitchc. var. **polystachya**

**CN:** *paja alemana.* **SY:** *Oplismenus polystachyus* Kunth **HA:** herb. **HB:** humid places. **LO:** BH: Lerencito. Domingo's house. **DP:** . **AL:** 0. **WD:** S United States to Argentina and the Antilles. **US:** grown as fodder in wet pastures (Stevens & al., 2001). **VS:** 1683 Al. **Photo:** 445

**Gynerium sagittatum** (Aubl.) P. Beauv.

**CN:** *birulí, caña blanca, caña de castilla, caña brava, wild cane.* **SY:** *Saccharum sagittatum* Aubl. **HA:** herb. **HB:** humid places. **LO:** BH: Río Limón. **DP:** bo/ch/ca/da/lo/sa. **AL:** 0. **WD:** Mexico to Bolivia and Paraguay and the Antilles. **US:** used in wall and roof construction in "ranchos". Inflorescences used in floral arrangements (Santana, 1998). Inflorescence axis used to make arrows (León & Poveda, 2000) and cages (Santana, 1998). **VS:** not collected. **Photo:**

**Homolepis aturensis** (Kunth) Chase

**CN:** **SY:** *Panicum aturense* Kunth **HA:** herb. **HB:** forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** bo/ca/ch/cn/pa/. **AL:** 0/1/2. **WD:** S Mexico to Bolivia, Brazil and Trinidad. **US:** **VS:** 16352 SC. **Photo:**

**Hyparrhenia rufa** (Nees) Stapf

**CN:** *faragua (BH).* **SY:** *Trachypogon rufus* Nees **HA:** herb. **HB:** scrub. **LO:** ICT: path from JP's house to Playa del Laboratorio. Close to the house. **DP:** ca/pa/. **AL:** 0. **WD:** native to Africa; naturalized in the tropics. **US:** grown as pasture for cattle (BH). **VS:** 1366a Al, 1510 Al. **Photo:** 446-447-448-449



***Ichnanthus pallens* (Sw.) Munro ex Benth.**

**CN:** \_\_ **SY:** *Panicum pallens* Sw.; *Panicum axillare* Nees; *Ichnanthus axillaris* (Nees) Hitchc. & Chase; *Ichnanthus brevivaginatus* Swallen **HA:** herb. **HB:** scrub. **LO:** BH: path from Limón to El Edén. El Edén. **DP:** bo/bo/ca/ch/da/pa/. **AL:** 0. **WD:** pantropical. **US:** \_\_ **VS:** 1675 AI, 1819 AI. **Photo:**

***Ichnanthus tenuis* (J. Presl) Hitchc. & Chase**

**CN:** \_\_ **SY:** *Oplismenus tenuis* J. Presl & C. Presl **HA:** herb. **HB:** scrub. **LO:** BH: path from Playa del Sol to Lerencito. **DP:** bo/ca/ch/da/pa/. **AL:** 0/1. **WD:** Mexico to Peru, Bolivia, Paraguay, Argentina and the Antilles. **US:** \_\_ **VS:** 1678 AI. **Photo:** 450

***Ischaemum timorense* Kunth**

**CN:** *ratana*. **SY:** \_\_ **HA:** herb. **HB:** open areas. **LO:** BH: El Edén. **DP:** ca/. **AL:** 0. **WD:** native to tropical Asia; naturalized in tropical America. **US:** \_\_ **VS:** 1476 AI. **Photo:**

***Lasiacis nigra* Davidse**

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** scrub, secondary forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** cc/ch/pa/. **AL:** 0/1. **WD:** Mexico to Bolivia. **US:** \_\_ **VS:** 16315 SC. **Photo:**

***Lasiacis sorghoidea* (Desv.) Hitchc. & Chase**

**CN:** *millo*, *carricillo*. **SY:** *Panicum sorghoideum* Desv. & Ham.; *Lasiacis patentiflora* Hitchc. & Chase; *Lasiacis sorghoidea* var. *patentiflora* (Hitchc. & Chase) Davidse **HA:** herb. **HB:** scrub, secondary forests. **LO:** BH: El Edén. **DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/vr/. **AL:** 0. **WD:** S Mexico to Argentina and the Antilles. **US:** \_\_ **VS:** 1516 AI. **Photo:** 451

***Oplismenus hirtellus* (L.) P. Beauv.**

**CN:** \_\_ **SY:** *Panicum hirtellum* L. **HA:** herb. **HB:** open areas. **LO:** BH: El Edén. **DP:** ca/. **AL:** 0/1/2. **WD:** pantropical. **US:** \_\_ **VS:** 1486 AI. **Photo:** 452

***Panicum pilosum* Sw. var. *pilosum***

**CN:** *grama de camino*. **SY:** \_\_ **HA:** herb. **HB:** open areas. **LO:** BH: surroundings of El Edén. Between Playa del Sol and Salmonete, Río Luis area. ICT. **DP:** ca/cc/ch/cn/da/pa/sa/. **AL:** 0/1/2. **WD:** tropical America; introduced in the Old World tropics. **US:** \_\_ **VS:** 1459 AI, 16053 SC, 16345 SC. **Photo:**

***Paspalum conjugatum* P.J. Bergius**

**CN:** *hierba criolla*, *hierba de la vaca sana*. **SY:** *Paspalum conjugatum* var. *pubescens* Döll **HA:** herb. **HB:** open areas. **LO:** BH: Playa del Sol. ICT. **DP:** bo/ca/ch/cn/da/he/pa/sa/. **AL:** 0/1. **WD:** native to tropical America, introduced in all tropics and subtropics. **US:** \_\_ **VS:** 16060 SC, 19581 JLFA. **Photo:**

***Paspalum decumbens* Sw.**

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** scrub. **LO:** ICT: N of the island. From Naranja Amargo to Playa de los Luchos. **DP:** bo/ca/cc/ch/cn/he/pa/. **AL:** 0. **WD:** S Mexico to Bolivia, Brazil and the Antilles. **US:** \_\_ **VS:** 1559 AI, 16166 SC. **Photo:** 453

**Paspalum saccharoides** Nees ex Trin.

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** open areas. **LO:** ICT: N of the island. **DP:** ca/cc/ch/cn/pa/sa/. **AL:** 0/1. **WD:** Nicaragua to Bolivia, Brazil and the Antilles. **US:** \_\_ **VS:** 16206 SC. **Photo:** \_\_

**Paspalum virgatum** L.

**CN:** *cabezona, cocona*. **SY:** \_\_ **HA:** herb. **HB:** open areas. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** bo/ca/ch/cn/da/pa/sa/. **AL:** 0. **WD:** United States (S de Texas) to Brazil, Paraguay and Argentina and the Antilles. **US:** \_\_ **VS:** 16387b SC. **Photo:** \_\_

#### PODOSTEMONACEAE

**Marathrum** sp.

**CN:** \_\_ **SY:** \_\_ **HA:** aquatic herb. **HB:** rivers and waterfalls. **LO:** BH: Manglarito. Waterfall in Río Limón. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 1639 AI, 1640 AI, 1827 AI, 1828 AI. **Photo:** 454 (MAG) -455-456

**Tristicha trifaria** (Bory ex Willd.) Spreng.

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** waterfalls and humid places. **LO:** BH: Waterfall in Río Limón. **DP:** ca/pa/. **AL:** 0. **WD:** Mexico to Argentina; also in Africa. **US:** \_\_ **VS:** 20541 NSA. **Photo:** \_\_

#### POLYGALACEAE

**Polygala** sp.1

**CN:** \_\_ **SY:** \_\_ **HA:** herb. **HB:** open areas. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** \_\_ **AL:** \_\_ **WD:** \_\_ **US:** \_\_ **VS:** 16330 SC, 16368 SC. **Photo:** \_\_

**Securidaca diversifolia** (L.) S.F. Blake

**CN:** *bejuco de amarrar, bejuco mulato*. **SY:** *Polygala diversifolia* L.; *Elsota diversifolia* (L.) S.F. Blake **HA:** shrub. **HB:** coastal forests. **LO:** ICT: between Playa del Laboratorio and Playa de los Luchos. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/sa/. **AL:** 0. **WD:** Mexico to Brazil and Bolivia; the Antilles. **US:** \_\_ **VS:** 1851 AI. **Photo:** \_\_

#### POLYGONACEAE

**Coccoloba coronata** Jacq.

**CN:** *maquenca, papaturra blanca, Peña Blanca*. **SY:** \_\_ **HA:** shrub or tree to 13 m. **HB:** coastal fringe. **LO:** BH: Punta Gorda ridge. Cativito. Playa de Lerencito. Playa del Sol. ICT: between Playa Naranja and the most NW point of the island. Playa del

Laboratorio. Between Playa Naranjo and the most NW point of the island. \_\_DP: ca/cc/ch/cn/da/he/pa/sa/vr/. \_\_AL: 0. \_\_WD: Panama, Colombia to Peru and Venezuela. \_\_US: \_\_VS: 1468 AI, 16078 SC, 16123 SC, 16314 SC, 16455 SC, 1852 AI, 2115 AI. \_\_Photo: 457

**Coccoloba padiformis** Meisn.

CN: *maquenco prieto, papaturro blanco, uvero*. \_\_SY: \_\_HA: tree to 20 m. \_\_HB: mature and secondary forests, coastal fringe. \_\_LO: BH: in the way to Río Seco headwaters. \_\_DP: ca/. \_\_AL: 0. \_\_WD: Costa Rica to Peru and Venezuela. \_\_US: \_\_VS: 2101 AI. \_\_Photo:

**Triplaris cumingiana** Fisch. & C.A. Mey. ex C.A. Mey.

CN: *guayabo hormigoso (BH), guayabo hormiguero, palo santo, vara santa*. \_\_SY: \_\_HA: tree to 20 m. \_\_HB: secondary forests. \_\_LO: ICT: Playa de los Luchos. Playa del Naranjo. \_\_DP: ca/da/lo/pa/sa/. \_\_AL: 0. \_\_WD: Panama to Bolivia and Venezuela. \_\_US: \_\_VS: 1701 AI, 1792 AI. \_\_Photo: 458-459-460-461(MAG)

PROTEACEAE

**Roupala montana** Aubl.

CN: *carne asada (BH), jamaico, ratón, zahinillo*. \_\_SY: *Roupala borealis* Hemsl.; *Roupala complicata* Kunth \_\_HA: tree to 10 m. \_\_HB: scrub, secondary forests. \_\_LO: BH: path from Playa del Sol to Lerencito. Surroundings of Playa Limón. \_\_DP: ca/cc/ch/da/he/pa/vr/. \_\_AL: 0. \_\_WD: Mexico to South America. \_\_US: \_\_VS: 16262 SC, 1686 AI. \_\_Photo: 462-463

RHAMNACEAE

**Gouania lupuloides** (L.) Urb.

CN: *jaboncillo*. \_\_SY: *Banisteria lupuloides* L. \_\_HA: vine. \_\_HB: scrub. \_\_LO: BH: from "Cativo Forest" near Río Luis to Playa del Sol. El Edén. ICT: path from Playa del Laboratorio to the Lab. \_\_DP: bo/ca/cc/ch/da/he/lo/pa/vr/. \_\_AL: 0. \_\_WD: S United States (Florida) and Mexico to C South America. \_\_US: \_\_VS: 1519 AI, 1585 AI, 16031 SC. \_\_Photo: 464-465-466

RHIZOPHORACEAE

**Cassipourea elliptica** (Sw.) Poir.

CN: *ajo (BH), ajito, huesito, limoncillo*. \_\_SY: *Legnotis elliptica* Sw.; *Cassipourea alba* Griseb.; *Cassipourea belizensis* Lundell; *Cassipourea podantha* Standl. \_\_HA: tree to 25 m. \_\_HB: mature forests, humid places. \_\_LO: BH: Río Limón. El Edén Plot. ICT: N of the island. Plot 1. Between Playa Naranjo and the most NW point of the island. \_\_DP: bo/ca/cc/ch/cn/da/pa/sa/. \_\_AL: 0. \_\_WD: Honduras to Panama and Pacific coast of Colombia and Ecuador; abundant in the Antilles. \_\_US: tree rich in tannins, used in tannery and dying trade (Montenegro, 1996). Like the related mangroves, *Cassipourea* has a hard wood that is used in many kinds of construction, like bridges, industrial floors and railway sleepers (Pérez & Condit, 2002). \_\_VS: 16096 SC, 16222 SC, 1769 AI, 1968 AI, 2179 AI. \_\_Photo: 467

**Rhizophora mangle** L.

**CN:** *mangle rojo* (BH), *alli*, *alli kinnit* (K), *red mangrove*. **\_\_SY:** **\_\_HA:** tree to 30 m. **\_\_HB:** mangroves. **\_\_LO:** BH: Río Limón. **\_\_DP:** bo/ca/ch/cn/da/lo/pa/sa/vr/. **\_\_AL:** 0. **\_\_WD:** Mexico to Ecuador on the Pacific coast and from United States (Florida) to S Brazil on the Atlantic coast. **\_\_US:** timber yielding species and to obtain firewood and coal. From its bark also tannins are obtained (Little & Wadsworth, 1964). Medicinally used in cases of fractures. Taken by pregnant women to have a male child (Gupta & al., 1993). **\_\_VS:** not collected. **\_\_Photo:** 468-469-470-471-472-473-474-475

**RUBIACEAE**

**Alibertia edulis** (Rich.) A. Rich.

**CN:** *zumbo* (BH), *guayabita de monte*, *lagartillo*, *madroño*, *trompo*, *trompito*. **\_\_SY:** *Genipa edulis* Rich.; *Alibertia longistipulata* L. Riley; *Alibertia panamensis* L. Riley **\_\_HA:** shrub or tree to 6 m. **\_\_HB:** coastal fringe, scrub. **\_\_LO:** BH: surroundings of Playa Limón. From Jeringuita to Jeringón. ICT: N of the island. **\_\_DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/vr/. **\_\_AL:** 0. **\_\_WD:** C Mexico to Bolivia and Brazil; Cuba. **\_\_US:** fruits are edible. From the young fruits kids make an instrument to play (León & Poveda, 2000). **\_\_VS:** 16174 SC, 16310 SC, 2003 AI. **\_\_Photo:**

**Amaioua corymbosa** Kunth

**CN:** *madroño torcido* (BH), *madroño* (BH), *madroño de montaña*. **\_\_SY:** **\_\_HA:** shrub or tree to 15 m. **\_\_HB:** mature and secondary forests. **\_\_LO:** BH: between El Suto and Jeringón. El Edén Plot. ICT: path from Playa de los Luchos to N of the island. N of the island. Between Playa Naranjo and the most NW point of the island. **\_\_DP:** ca/cc/ch/cn/da/lo/pa/vr/. **\_\_AL:** 0. **\_\_WD:** S Mexico to Brazil and Bolivia. **\_\_US:** **\_\_VS:** 1411 AI, 16048 SC, 16103 SC, 16196 SC, 16430 SC, 2227 AI. **\_\_Photo:** 476

**Calycophyllum candidissimum** (Vahl) DC.

**CN:** *madroño* (BH), *alazano*, *criollo*, *guayabo*, *guayabo alazano*, *harino*, *salamo*. **\_\_SY:** *Macrocnemum candidissimum* Vahl **\_\_HA:** tree to 20 m. **\_\_HB:** mature and secondary forests, coastal fringe. **\_\_LO:** BH: surroundings of Salmonete. ICT: Playa de los Luchos. Plot 1. N of the island. **\_\_DP:** ca/cc/da/lo/pa/. **\_\_AL:** 0. **\_\_WD:** C Mexico to NW Colombia. **\_\_US:** **\_\_VS:** 16228 SC, 16539 SC, 1729 AI, 1398 AI. **\_\_Photo:** 477-478

**Chimarrhis parviflora** Standl.

**CN:** *plátano*, *yema de huevo*. **\_\_SY:** **\_\_HA:** tree to 25 m. **\_\_HB:** mature and secondary forests. **\_\_LO:** BH: El Edén Plot. **\_\_DP:** bo/pa/vr/. **\_\_AL:** 0. **\_\_WD:** C Nicaragua to Panama. **\_\_US:** **\_\_VS:** 2155 AI, 2204 AI, 2228 AI, 2231 AI. **\_\_Photo:**

**Chiococca alba** (L.) Hitchc.

**CN:** *lágrimas*, *lágrimas de María*. **\_\_SY:** *Lonicera alba* L.; *Chiococca racemosa* Sessé & Moc. **\_\_HA:** shrub or vine. **\_\_HB:** scrub and secondary forests. **\_\_LO:** BH: from Jeringuita to Jeringón. Between El Suto and Jeringón. **\_\_DP:** bo/ca/ch/cn/da/he/lo/pa/sa/. **\_\_AL:** 0/1. **\_\_WD:** S United States to Brazil and Bolivia. **\_\_US:** used in cases of groin inflammation, also as antivenereal, as an emmenagogue and abortive (Gupta, 1995). **\_\_VS:** 16429 SC, 2021 AI. **\_\_Photo:**

**Chiococca belizensis** Lundell

**CN:** \_\_ **SY:** *Chiococca durifolia* Dwyer \_\_ **HA:** shrub or vine. \_\_ **HB:** scrub and secondary forests. \_\_ **LO:** BH: between El Suto and Jeringón. From Jeringuita to Jeringón. \_\_ **DP:** cc/cn/pa/ch/. \_\_ **AL:** 0. \_\_ **WD:** S Mexico to NW Colombia. \_\_ **US:** \_\_ **VS:** 16425 SC, 2012 AI. \_\_ **Photo:**

**Condaminea corymbosa** (Ruiz & Pav.) DC.

**CN:** \_\_ **SY:** *Macrocnemum corymbosum* Ruiz & Pav. \_\_ **HA:** shrub or tree to 10 m. \_\_ **HB:** coastal fringe, secondary forests. \_\_ **LO:** BH: between El Suto and Jeringón. ICT: Playa del Laboratorio to Train Station. \_\_ **DP:** ch/da/. \_\_ **AL:** 0/1. \_\_ **WD:** Costa Rica to Peru and Bolivia. \_\_ **US:** \_\_ **VS:** 16406 SC, 16529 SC, 1704 AI. \_\_ **Photo:**

**Coutarea hexandra** (Jacq.) K. Schum.

**CN:** *niño muerto, piregueta, quina, azulejo*. \_\_ **SY:** *Portlandia hexandra* Jacq. \_\_ **HA:** shrub or tree to 8 m. \_\_ **HB:** scrub. \_\_ **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. \_\_ **DP:** ca/cc/ch/cn/da/he/pa/. \_\_ **AL:** 0. \_\_ **WD:** Mexico to Argentina. \_\_ **US:** \_\_ **VS:** 16385 SC. \_\_ **Photo:**

**Faramea occidentalis** (L.) A. Rich.

**CN:** *huesito verde (BH), huesito, benjamín, huesillo, palo escrito, bonewood*. \_\_ **SY:** *Ixora occidentalis* L. \_\_ **HA:** shrub or tree to 10 m. \_\_ **HB:** mature and secondary forests. \_\_ **LO:** ICT: top of the island. Plot 1. Between Playa Naranja and the most NW point of the island. Path from Playa de los Luchos to N of the island. \_\_ **DP:** ca/cc/cn/da/lo/pa/vr/. \_\_ **AL:** 0. \_\_ **WD:** Mexico to Bolivia and the Antilles. \_\_ **US:** used as poles for house construction (BH). \_\_ **VS:** 1417 AI, 16071 SC, 16095 SC, 16125 SC, 1723 AI. \_\_ **Photo:**

**Genipa americana** L.

**CN:** *jagua (BH), sabdor (K)*. \_\_ **SY:** *Genipa caruto* Kunth; *Genipa americana* var. *caruto* (Kunth) K. Schum \_\_ **HA:** tree to 25 m. \_\_ **HB:** scrub. \_\_ **LO:** ICT: path from Playa de los Luchos to N of the island. \_\_ **DP:** bo/ca/cc/ch/da/he/lo/pa/vr/. \_\_ **AL:** 0. \_\_ **WD:** S United States (Florida) to Bolivia and the Antilles. \_\_ **US:** a black or blue dye is obtained from its fruits. The wood is used in construction and to make broomsticks and other domestic tools (Santana, 1998). Medicinally is used against dysentery, gonorrhoea and as an astringent (Gupta, 1995). Used to regulate foetus's size in pregnant women and against general women weakness (Gupta & al., 1993). A drink made out of the fruit is used against waist pains (BH). \_\_ **VS:** 1433 AI, 16037 SC, 16047 SC. \_\_ **Photo:** 479-480-481

**Gonzalagunia ovatifolia** (Donn. Sm.) B.L. Rob.

**CN:** \_\_ **SY:** *Gonzalea ovatifolia* Donn. Sm. \_\_ **HA:** shrub or tree to 4 m. \_\_ **HB:** mature forests, river banks. \_\_ **LO:** BH: forest in Playa de Juana. El Edén Plot. Surroundings of Playa Limón. \_\_ **DP:** bo/cc/sa/. \_\_ **AL:** 0. \_\_ **WD:** Nicaragua to NW Colombia. \_\_ **US:** \_\_ **VS:** 16288 SC, 1839 AI, 2166 AI. \_\_ **Photo:**

**Gonzalagunia panamensis** (Cav.) K. Schum.

**CN:** *niguita*. \_\_ **SY:** *Buena panamensis* Cav. \_\_ **HA:** shrub or tree to 5 m. \_\_ **HB:** scrub, secondary forests. \_\_ **LO:** BH: between El Suto and Jeringón. From Jeringuita to Jeringón. ICT: path from Playa del Laboratorio to the Lab. Close to JP's house. \_\_ **DP:**

bo/ca/cc/ch/cn/he/pa/sa/vr/. \_\_AL: 0. \_\_WD: C Mexico to N Colombia. \_\_US: \_\_VS: 1372 AI, 16029 SC, 16448 SC, 2027 AI. \_\_Photo: 482

**Guettarda foliacea** Standl.

**CN:** *espino, espino blanco, guayaba*. \_\_SY: \_\_HA: shrub or tree to 10 m. \_\_HB: secondary forests, coastal fringe. \_\_LO: BH: Cativito. From Jeringuita to Jeringón. Surroundings of Salmonete. \_\_DP: ca/da/pa/vr/. \_\_AL: 0. \_\_WD: Nicaragua to Panama, Colombia (Chocó) and Peru (coast). \_\_US: \_\_VS: 16545 SC, 2013 AI, 2116 AI. \_\_Photo:

**Hamelia axillaris** Sw.

**CN:** *guayabo negro*. \_\_SY: *Hamelia lutea* Rohr ex Sm \_\_HA: shrub. \_\_HB: mature forests, river banks. \_\_LO: BH: El Edén Plot. \_\_DP: bo/ca/ch/cn/da/lo/pa/sa/. \_\_AL: 0. \_\_WD: Mexico to Bolivia and the Antilles. \_\_US: \_\_VS: 2165 AI. \_\_Photo:

**Hamelia magnifolia** Wernham

**CN:** *ojo morado*. \_\_SY: \_\_HA: shrub. \_\_HB: mature forests, river banks. \_\_LO: BH: in the way to Río Seco headwaters. \_\_DP: bo/ch/da/sa/vr/. \_\_AL: 0. \_\_WD: Costa Rica and Panama. \_\_US: \_\_VS: 2046 AI, 2059 AI. \_\_Photo:

**Hamelia patens** Jacq.

**CN:** *uvero, pasmo de sangre*. \_\_SY: *Hamelia erecta* Jacq.; *Hamelia nodosa* M.Martens & Galeotti \_\_HA: shrub. \_\_HB: scrub. \_\_LO: BH: from Jeringuita to Jeringón. Surroundings of Salmonete. \_\_DP: ch/ca/cc/da/he/lo/pa/vr/. \_\_AL: 0/1. \_\_WD: S United States (Florida) and Mexico to Argentina. \_\_US: to heal wounds and skin problems; also as an anti-inflammatory and against rheumatism (Gupta, 1995). To treat muscle joint pains (Zapata, 1995). Also to treat snake bite and childbirth pains (Joly & al., 1987). \_\_VS: 16549 SC, 2016 AI. \_\_Photo:

**Isertia haenkeana** DC.

**CN:** *coralillo (BH), candelito, canelito, fruta de mono, fruta de murciélago, jaguito*. \_\_SY: \_\_HA: shrub. \_\_HB: scrub. \_\_LO: ICT: path from Playa del Laboratorio to the Lab. Close to JP's house. \_\_DP: bo/ca/cc/cn/da/pa/sa/vr/. \_\_AL: 0. \_\_WD: S Mexico to Venezuela and Colombia; Cuba. \_\_US: \_\_VS: 1363 AI, 1555 AI, 16027 SC. \_\_Photo: 483-484

**Ixora floribunda** (A. Rich.) Griseb.

**CN:** *cacho de toro*. \_\_SY: *Siderodendron floribundum* A. Rich. \_\_HA: shrub or tree to 15 m. \_\_HB: secondary forests. \_\_LO: BH: Cativito. \_\_DP: ca/da/lo/pa/. \_\_AL: 0. \_\_WD: Honduras to Colombia and Cuba. \_\_US: \_\_VS: 2125 AI. \_\_Photo:

**Machaonia martinicensis** (DC.) Standl.

**CN:** \_\_SY: *Tertrea martinicensis* DC.; *Machaonia rorundata* var. *dodgei* Standl. \_\_HA: shrub or tree to 8 m. \_\_HB: coastal fringe. \_\_LO: BH: surroundings of Playa Limón. El Edén. \_\_DP: bo/pa/. \_\_AL: 0. \_\_WD: Nicaragua to Colombia and Jamaica. \_\_US: \_\_VS: 16307 SC, 2143 AI. \_\_Photo:

**Macrocnemum roseum** (Ruiz & Pav.) Wedd.

**CN:** *madroño* (BH), *canalete*, *cedro macho*, *guanábana torete*, *palo cuadrado*. **\_\_SY:** *Cinchona rosea* Ruiz & Pav.; *Lasionema glabrescens* Benth.; *Macrocnemum glabrescens* (Benth.) Wedd.; *Macrocnemum pastoense* H. Karst. **\_\_HA:** tree to 25 m. **\_\_HB:** in BH and Coiba it grows in mature forests on steep slopes and mostly on the coastal fringe. **\_\_LO:** BH: Manglarito. El Edén Plot. Between El Suto and Jeringón. ICT: forest N of the island. Plot 1. **\_\_DP:** bo/ca/cc/ch/cn/da/pa/vr/. **\_\_AL:** 0. **\_\_WD:** Costa Rica to Bolivia. **\_\_US:** hard and heavy wood used for posts, beams and furniture (Santana, 1998). **\_\_VS:** 1453 AI, 1647 AI, 1718 AI, 2215 AI, 16441 SC. **\_\_Photo:** 485-486

**Manettia reclinata** L.

**CN:** **\_\_SY:** *Manettia panamensis* Duchass. & Walp.; *Manettia costaricensis* Wernham **\_\_HA:** vine. **\_\_HB:** scrub. **\_\_LO:** BH: from Playa del Sol to El Edén. **\_\_DP:** bo/ca/cc/ch/da/lo/pa/sa/vr/. **\_\_AL:** 0. **\_\_WD:** S Mexico to Brazil and the Antilles. **\_\_US:** decoction of stems is used as an analgesic for kidney problems (Joly & al., 1987). **\_\_VS:** 1671 AI. **\_\_Photo:** 487-488

**Palicourea guianensis** Aubl.

**CN:** *recadito*, *suidirmas* (K). **\_\_SY:** **\_\_HA:** shrub or tree to 4 m. **\_\_HB:** secondary forests, scrub. **\_\_LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **\_\_DP:** bo/ch/ca/da/lo/pa/sa/vr/. **\_\_AL:** 0. **\_\_WD:** S Mexico to Brazil and the Antilles. **\_\_US:** in cases of mental disorders (Gupta & al., 1993). **\_\_VS:** 16375 SC. **\_\_Photo:**

**Palicourea triphylla** DC.

**CN:** **\_\_SY:** *Palicourea parviflora* Benth.; *Palicourea longibracteata* Bartl. ex DC. **\_\_HA:** shrub or tree to 3 m. **\_\_HB:** secondary forests, scrub, open areas. **\_\_LO:** BH: between El Suto and Jeringón. De Playa Jeringuita to Playa Blanca. ICT: between Playa Naranja and the most NW point of the island. Top of the island. **\_\_DP:** bo/ca/cc/ch/da/he/pa/vr/. **\_\_AL:** 0/1. **\_\_WD:** S Mexico to Brazil and W Cuba. **\_\_US:** **\_\_VS:** 1918 AI, 16070 SC, 16131 SC, 16423 SC. **\_\_Photo:** 489-490 (AE)

**Posoqueria latifolia** (Rudge) Roem. & Schult.

**CN:** *boca de vieja*, *borajó*, *fruta de mono*, *fruta de murciélagos*, *mariquito de marea*. **\_\_SY:** *Solena latifolia* Rudge **\_\_HA:** shrub or tree to 10 m. **\_\_HB:** mature and secondary forests, scrub. **\_\_LO:** BH: from Playa del Sol to El Edén. ICT: Playa de los Luchos. Plot 1. **\_\_DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/vr/. **\_\_AL:** 0/1. **\_\_WD:** Mexico to Brazil. **\_\_US:** fruits are edible (Montenegro, 1996). **\_\_VS:** 1669 AI, 1746 AI, 1379 AI, 16040 SC. **\_\_Photo:** 491-492-493-494-495-496-497

**Psychotria acuminata** Benth.

**CN:** *pata de pavo*. **\_\_SY:** *Psychotria acuminata* ssp. *boraginoides* Dwyer **\_\_HA:** shrub. **\_\_HB:** secondary forests, scrub. **\_\_LO:** BH: between El Suto and Jeringón. Between Playa del Sol and Salmonete, Río Luis area. From Playa Jeringuita to Playa Blanca. Forest in El Edén. **\_\_DP:** ca/cc/cn/da/he/lo/pa/sa/vr/ch/. **\_\_AL:** 0/1. **\_\_WD:** C Mexico to the Guianas and Peru; the Antilles. **\_\_US:** **\_\_VS:** 16358 SC, 16428 SC, 1919 AI, 2137 AI. **\_\_Photo:**

**Psychotria brachiata** Sw.

**CN:** \_\_ **SY:** \_\_ **HA:** shrub. **HB:** mature forests. **LO:** BH: El Edén Plot. **DP:** bo/ca/cc/cn/da/lo/pa/sa/vr/. **AL:** 0. **WD:** S Mexico to E Panama and the Antilles. **US:** \_\_ **VS:** 2162 AI. **Photo:**

**Psychotria cyanococca** Seem.

**CN:** \_\_ **SY:** *Psychotria pittieri* Standl.; *Psychotria dispersa* Standl. **HA:** shrub. **HB:** mature forests. **LO:** BH: in the way to Río Seco headwaters. **DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/. **AL:** 0. **WD:** Belize to Panama. **US:** \_\_ **VS:** 2087 AI. **Photo:**

**Psychotria deflexa** DC.

**CN:** *garricillo*. **SY:** \_\_ **HA:** shrub. **HB:** secondary forests, scrub. **LO:** BH: Punta Gorda ridge. **DP:** bo/ca/cc/da/he/pa/sa/vr/. **AL:** 0. **WD:** S Mexico to Bolivia and the Guianas; the Antilles. **US:** \_\_ **VS:** 16503 SC, 16519 SC. **Photo:**

**Psychotria emetica** L. f.

**CN:** *raicilla*, *raicilla macho*, *false ipecac*. **SY:** \_\_ **HA:** shrub. **HB:** secondary forests, scrub. **LO:** BH: from Playa Jeringuita to Playa Blanca. **DP:** bo/ca/cn/da/pa/sa/. **AL:** 0. **WD:** Guatemala to Brazil and Bolivia. **US:** this species can be used to extract the drug called "ipecac", though this is mostly obtained from *Psychotria ipecacuanha* (Stevens & al., 2001). **VS:** 1921 AI. **Photo:**

**Psychotria gracilentia** Müll. Arg.

**CN:** \_\_ **SY:** *Psychotria brachybotrya* Müll. Arg. **HA:** shrub. **HB:** mature and secondary forests. **LO:** BH: surroundings of Playa Limón. Punta Gorda ridge. **DP:** bo/ca/cc/cn/da/he/pa/. **AL:** 0. **WD:** Nicaragua to the Guianas and Peru. **US:** \_\_ **VS:** 16272 SC, 16498 SC. **Photo:**

**Psychotria hoffmannseggiana** (Willd. ex Roem. & Schult.) Müll. Arg.

**CN:** \_\_ **SY:** *Cephaelis hoffmannseggiana* Willd. ex Roem. & Schult.; *Psychotria furcata* DC. **HA:** shrub. **HB:** mature and secondary forests. **LO:** BH: between El Suto and Jeringón. Forest in El Edén. Cativito. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/sa/. **AL:** 0. **WD:** Honduras to Bolivia and the Guianas. **US:** \_\_ **VS:** 16412 SC, 2130 AI, 2139 AI. **Photo:**

**Psychotria horizontalis** Sw.

**CN:** \_\_ **SY:** \_\_ **HA:** shrub. **HB:** secondary forests, scrub. **LO:** BH: from Playa Jeringuita to Playa Blanca. Path from Limón to the Magic Forest. El Edén Plot. Between El Suto and Jeringón. Between Playa del Sol and Salmonete, Río Luis area. ICT. **DP:** ca/cc/ch/cn/da/he/lo/pa/sa/vr/. **AL:** 0/1. **WD:** S Mexico to Brazil and Ecuador; the Antilles. **US:** \_\_ **VS:** 16051 SC, 16384 SC, 16427 SC, 1915 AI, 1980 AI, 2187 AI. **Photo:**

**Psychotria poeppigiana** Müll. Arg.

**CN:** *labios ardientes*. **SY:** *Cephaelis tomentosa* (Aubl.) Vahl; *Cephaelis vultusmimi* Dwyer; *Tapogomea tomentosa* Aubl.; *Cephaelis barcellana* (Müll. Arg.) Standl. **HA:** shrub. **HB:** secondary forests, scrub. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** bo/ca/cc/cn/da/lo/pa/sa/vr/ch/. **AL:** 0/1. **WD:** S



Mexico to Brazil and Bolivia. \_\_US: used against hallucinations, vertigo and German measles (Joly & al., 1987). \_\_VS: 16357 SC. \_\_Photo: 498-499

**Psychotria pubescens** Sw.

CN: *huesito, arilina*. \_\_SY: \_\_HA: shrub. \_\_HB: secondary forests, scrub. \_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. \_\_DP: bo/ca/cc/ch/cn/da/pa/sa/vr/. \_\_AL: 0/1. \_\_WD: C Mexico to Colombia and the Antilles. \_\_US: \_\_VS: 16346 SC, 16371 SC. \_\_Photo:

**Psychotria racemosa** Rich.

CN: \_\_SY: *Nonatelia racemosa* Aubl. \_\_HA: shrub. \_\_HB: mature and secondary forests. \_\_LO: BH: El Edén Plot. Surroundings of Salmonete. \_\_DP: bo/ca/cc/ch/cn/da/lo/pa/sa/. \_\_AL: 0. \_\_WD: S Mexico to Brazil and Bolivia. \_\_US: \_\_VS: 16571 SC, 2157 Al, 2282 Al. \_\_Photo:

**Randia armata** (Sw.) DC.

CN: *rosetillo, jagua macho, espinita, mostrenco, tres chucitos*. \_\_SY: *Gardenia armata* Sw.; *Randia spinosa* (Jacq.) H. Karst.; *Randia nitida* (Kunth) DC. \_\_HA: shrub. \_\_HB: scrub. \_\_LO: ICT: between Playa Naranjo and the most NW point of the island. \_\_DP: bo/cc/cn/pa/da/sa/. \_\_AL: 0. \_\_WD: Mexico to N South America and the Antilles. \_\_US: \_\_VS: 16093 SC. \_\_Photo:

**Richardia scabra** L.

CN: *trébol mexicano*. \_\_SY: \_\_HA: herb. \_\_HB: open areas. \_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. \_\_DP: ca/cc/ch/cn/lo/pa/vr/. \_\_AL: 0/1. \_\_WD: S United States to Brazil, in the Antilles and introduced in Africa and Asia. \_\_US: \_\_VS: 16367 SC. \_\_Photo:

**Rondeletia hameliifolia** Dwyer & M.V. Hayden

CN: \_\_SY: \_\_HA: shrub. \_\_HB: scrub. \_\_LO: ICT: N of the island. \_\_DP: lo/vr/. \_\_AL: 0. \_\_WD: Costa Rica and Panama. \_\_US: \_\_VS: 16194 SC. \_\_Photo: 500

**Sabicea panamensis** Wernham

CN: \_\_SY: *Sabicea costaricensis* Wernham \_\_HA: shrub or vine. \_\_HB: scrub. \_\_LO: BH: from Limón to El Edén. Surroundings of Playa Limón. \_\_DP: bo/ca/cc/ch/cn/da/pa/sa/vr/. \_\_AL: 0/1. \_\_WD: Belize to Bolivia. \_\_US: \_\_VS: 1531 Al, 16292 SC. \_\_Photo: 501-502

**Sabicea villosa** Willd. ex Roem. & Schult.

CN: \_\_SY: *Sabicea hirsuta* Kunth; *Sabicea villosa* var. *adpressa* (Wernham) Standl. \_\_HA: shrub or vine. \_\_HB: open areas. \_\_LO: ICT. \_\_DP: bo/ca/cc/cn/da/pa/sa/ch/. \_\_AL: 0. \_\_WD: S Mexico to Bolivia. \_\_US: to treat rheumatism (Joly & al., 1990). \_\_VS: 16043 SC. \_\_Photo:

**Spermaceo** sp.

CN: \_\_SY: \_\_HA: herb. \_\_HB: open areas. \_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. Playa del Sol. From Limón to El Edén. ICT: path close to the

Lab. \_\_\_DP: . \_\_\_AL: . \_\_\_WD: . \_\_\_US: \_\_\_VS: 1352 AI, 16538 SC, 16356 SC, 16145 SC.  
\_\_\_Photo: 503-504-505

**Warszewiczia coccinea** (Vahl) Klotzsch

**CN:** *crucero, guna, sangrenaria, agua de río.* \_\_\_SY: *Macrocnemum coccineum* Vahl;  
*Warszewiczia pulcherrima* Klotzsch \_\_\_HA: shrub or tree to 15 m. \_\_\_HB: secondary  
forests, scrub, coastal fringe. \_\_\_LO: BH: between Playa del Sol and Salmonete, Río  
Luis area. El Edén Plot. ICT: Path from Playa de los Luchos to Train Station. \_\_\_DP:  
ca/cc/ch/cn/da/pa/sa/vr/. \_\_\_AL: 0. \_\_\_WD: Nicaragua to Bolivia. \_\_\_US: \_\_\_VS: 2149 AI,  
2191 AI, 1492 AI, 16333 SC. \_\_\_Photo:

RUTACEAE

**Citrus x aurantium** L.

**CN:** *naranja agria, naranja ácida, seville orange, sour orange.* \_\_\_SY: \_\_\_HA: tree to 6  
m. \_\_\_HB: cultivated. \_\_\_LO: ICT: between Playa Naranjo and the most NW point of the  
island. \_\_\_DP: bo/ca/ch/da/pa/. \_\_\_AL: 0. \_\_\_WD: native to SE Asia; introduced in Europe  
in the XI century; cultivated in all tropics and subtropics. \_\_\_US: \_\_\_VS: 16080 SC.  
\_\_\_Photo:

**Peltostigma guatemalense** (Standl. & Steyerl.) Gereau

**CN:** \_\_\_SY: *Galipea guatemalensis* Standl. & Steyerl.; *Peltostigma parviflorum* Q.  
Jiménez & Gereau \_\_\_HA: shrub or tree to 10 m. \_\_\_HB: mature forests. \_\_\_LO: BH: Río  
Seco headwaters. \_\_\_DP: vr/cc/. \_\_\_AL: 0. \_\_\_WD: Guatemala to Colombia and Peru.  
\_\_\_US: \_\_\_VS: 2051 AI, 2099 AI. \_\_\_Photo:

**Zanthoxylum setulosum** P. Wilson

**CN:** *alcabú, arcabú, palo de cruz, tachuelo.* \_\_\_SY: \_\_\_HA: shrub or tree to 20 m. \_\_\_HB:  
scrub, secondary forests. \_\_\_LO: BH: Playa del Sol. \_\_\_DP: ca/cc/da/he/lo/pa/. \_\_\_AL: 0.  
\_\_\_WD: Nicaragua to Panama. \_\_\_US: \_\_\_VS: 1949 AI. \_\_\_Photo: 506 (AE)

SAPINDACEAE

**Cupania latifolia** Kunth

**CN:** *gorgojero.* \_\_\_SY: \_\_\_HA: tree to 20 m. \_\_\_HB: scrub, secondary forests. \_\_\_LO: BH:  
Playa del Sol. \_\_\_DP: ca/cn/pa/. \_\_\_AL: 0. \_\_\_WD: Panama to Bolivia and Venezuela.  
\_\_\_US: \_\_\_VS: 1945 AI. \_\_\_Photo:

**Paullinia bracteosa** Radlk.

**CN:** \_\_\_SY: \_\_\_HA: liana. \_\_\_HB: secondary forests, scrub. \_\_\_LO: BH: Punta Gorda  
ridge. \_\_\_DP: bo/ca/ch/da/lo/pa/sa/. \_\_\_AL: 0. \_\_\_WD: Nicaragua to Panama, Venezuela,  
Brazil, Peru and Bolivia. \_\_\_US: \_\_\_VS: 16495 SC. \_\_\_Photo:

**Paullinia cururu** L.

**CN:** *barbasco, barbasco vaquero.* \_\_\_SY: \_\_\_HA: liana. \_\_\_HB: secondary forests, scrub,  
coastal fringe. \_\_\_LO: BH: Playa de Juana. Río Seco headwaters. El Edén. Between El  
Suto and Jeringón. ICT: N of the island. \_\_\_DP: ca/cc/ch/da/he/pa/vr/. \_\_\_AL: 0. \_\_\_WD:

Mexico to Colombia, Venezuela, Brazil and the Antilles. \_\_US: \_\_VS: 16191 SC, 16220 SC, 16445 SC, 16531 SC, 1846 AI, 2089 AI, 2148 AI. \_\_Photo:

**Paullinia fuscescens** var. **glabrata** Croat

CN: *barbasco vaquero*, *hierba de alacrán*. \_\_SY: \_\_HA: liana. \_\_HB: secondary forests, scrub, coastal fringe. \_\_LO: BH: Manglarito. \_\_DP: ca/ch/vr/. \_\_AL: 0. \_\_WD: Mexico to Panama and Venezuela. \_\_US: \_\_VS: 1648 AI. \_\_Photo: 507

**Paullinia turbacensis** Kunth

CN: *bejuco barbasquito*. \_\_SY: \_\_HA: liana. \_\_HB: mature and secondary forests, scrub, coastal fringe. \_\_LO: BH: Punta Gorda ridge. Path from Playa de Juana to the forest. ICT: forest N of the island. \_\_DP: ca/ch/cn/da/pa/sa/. \_\_AL: 0. \_\_WD: Mexico to Colombia. \_\_US: \_\_VS: 1450 AI, 16459 SC, 1835 AI. \_\_Photo: 509-510 (MAG) -511 (MAG)

**Serjania atrolineata** C. Wright

CN: \_\_SY: \_\_HA: liana. \_\_HB: scrub. \_\_LO: BH: Playa de Juana. \_\_DP: ca/cc/ch/cn/da/he/lo/pa/sa/vr/. \_\_AL: 0. \_\_WD: Mexico to Venezuela and Cuba. \_\_US: \_\_VS: 1841 AI. \_\_Photo:

**Serjania grandis** Seem.

CN: \_\_SY: \_\_HA: liana. \_\_HB: scrub. \_\_LO: BH: Lerencito. From Limón to El Edén. ICT. \_\_DP: ch/lo/vr/. \_\_AL: 0. \_\_WD: Honduras to Peru. \_\_US: \_\_VS: 1540 AI, 16530 SC, 1658 AI. \_\_Photo: 512-513-514-515

**Serjania mexicana** (L.) Willd.

CN: *barbasco*. \_\_SY: *Paullinia mexicana* L.; *Serjania angustifolia* Willd. \_\_HA: liana. \_\_HB: mature forests, coastal fringe. \_\_LO: ICT: Playa del Naranjo. Forest N of the island. \_\_DP: bo/ca/cc/ch/cn/da/he/lo/pa/vr/. \_\_AL: 0. \_\_WD: Mexico to Colombia and Venezuela. \_\_US: used as fish poison (Stevens & al., 2001). \_\_VS: 1444 AI, 1793 AI. \_\_Photo:

**Serjania rhombea** Radlk.

CN: \_\_SY: \_\_HA: liana. \_\_HB: scrub, coastal fringe. \_\_LO: BH: Playa de Juana. Playa de Lerencito. \_\_DP: ca/cc/cn/da/lo/pa/sa/. \_\_AL: 0. \_\_WD: Mexico to Venezuela and Ecuador. \_\_US: a tea from the stem is used to treat vertigo (Joly & al., 1990). \_\_VS: 1474 AI, 1847 AI. \_\_Photo: 516

**Talisia princeps** Oliv.

CN: *indio*, *sapotero*. \_\_SY: \_\_HA: tree to 6 m. \_\_HB: secondary forests. \_\_LO: BH: El Edén Plot. From Jeringuita to Jeringón. From Playa Jeringuita to Playa Blanca. Between El Suto and Jeringón. \_\_DP: bo/ca/da/pa/. \_\_AL: 0. \_\_WD: Panama, Venezuela, Ecuador and Peru. \_\_US: \_\_VS: 1922 AI, 2015 AI, 16411 SC, 2259 AI. \_\_Photo:

SAPOTACEAE

**Chrysophyllum cainito** L.

**CN:** *cainito*. **SY:** **HA:** tree to 30 m. **HB:** mature forests. **LO:** BH: surroundings of Playa Limón. **DP:** bo/ca/ch/he/lo/pa/sa/vr. **AL:** 0. **WD:** probably native to the Greater Antilles, though also in Panama; cultivated and naturalized in all of tropical America. **US:** wood is used to make handicrafts; also as firewood; fruit is edible (Santana, 1998). **VS:** 16311 SC. **Photo:** 517

**Manilkara staminodella** Gilly

**CN:** *nispero* (BH). **SY:** **HA:** tree to 35 m. **HB:** mature forests. **LO:** ICT: Plot 1. **DP:** vr/. **AL:** 0. **WD:** Belize to Panama. **US:** wood is used for posts (splinters) to build fences for cattle (BH). **VS:** 1743 AI. **Photo:** 518

**Pouteria fossicola** Cronquist

**CN:** **SY:** **HA:** tree to 12 m. **HB:** mature and secondary forests. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** ca/cc/cn/. **AL:** 0. **WD:** Nicaragua to Panama. **US:** **VS:** 16388b SC. **Photo:**

**Pouteria foveolata** T.D. Penn.

**CN:** *nispero macho* (BH). **SY:** **HA:** tree to 30 m. **HB:** mature forests. **LO:** BH: between El Suto and Jeringón. ICT: Plot 1. Forest N of the island. Plot 1. **DP:** vr/pa/. **AL:** 0. **WD:** Nicaragua to Panama. **US:** wood used for posts (splinters) (BH). **VS:** 1441 AI, 16436 SC, 1742 AI, 1763 AI, 1861 AI. **Photo:** 519

**Pouteria glomerata** (Miq.) Radlk.

**CN:** *mameicillo* (BH). **SY:** *Lucuma glomerata* Miq. **HA:** tree to 15 m. **HB:** mature forests. **LO:** BH: El Edén Plot. ICT: between Playa Naranjo and the most NW point of the island. From Naranjo Amargo to Playa de los Luchos. Plot 1. Playa del Naranjo. **DP:** ch/cn/vr/. **AL:** 0. **WD:** S Mexico to Panama and South America to Peru and Brazil. **US:** **VS:** 1575 AI, 16092 SC, 1740 AI, 1796 AI, 2200 AI, 2221 AI, 2253 AI, 2262 AI, 2270 AI. **Photo:** 520

**Pouteria sp.1**

**CN:** **SY:** **HA:** tree. **HB:** forests. **LO:** BH: from Jeringuita to Jeringón. **DP:** **AL:** **WD:** **US:** **VS:** 2007 AI. **Photo:**

**Pouteria sp.2**

**CN:** **SY:** **HA:** tree. **HB:** forests. **LO:** BH: El Edén Plot. **DP:** **AL:** **WD:** **US:** **VS:** 2234 AI. **Photo:**

**Sapo sp.1**

**CN:** **SY:** **HA:** tree. **HB:** forests. **LO:** BH: Río Seco headwaters. ICT: Plot 1. **DP:** **AL:** **WD:** **US:** **VS:** 2054 AI, 1855 AI. **Photo:**

SCROPHULARIACEAE

**Lindernia crustacea** (L.) F. Muell.

**CN:** *canjura de tierra*. **SY:** *Capraria crustacea* L. **HA:** herb. **HB:** open areas. **LO:** BH: Playa del Sol. **DP:** bo/ca/cc/ch/cn/da/lo/pa/sa/vr/. **AL:** 0. **WD:** pantropical; in America from S United States to Brazil and the Antilles. **US:** **VS:** 16147 SC. **Photo:**

**Lindernia diffusa** (L.) Wettst.

**CN:** *hierba de pollo*. **SY:** *Vandellia diffusa* L. **HA:** herb. **HB:** open areas. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. Playa del Sol. **DP:** bo/ca/cc/cn/pa/sa/vr/. **AL:** 0. **WD:** Mexico (Chiapas) to Brazil and the Antilles; also in tropical Africa. **US:** **VS:** 16351 SC, 19579 JLFA. **Photo:**

**Mecardonia procumbens** (Mill.) Small

**CN:** **SY:** *Erinus procumbens* Mill.; *Bacopa procumbens* (Mill.) Greenm. **HA:** herb. **HB:** open areas. **LO:** BH: Playa del Sol. **DP:** bo/ca/cc/ch/cn/da/he/lo/pa/sa/. **AL:** 0. **WD:** United States (S Florida) to Uruguay and the Antilles. **US:** **VS:** 16146 SC, 2096 AI. **Photo:**

**Russelia sarmentosa** Jacq.

**CN:** **SY:** *Russelia oxyphylla* Lundell **HA:** herb. **HB:** scrub, coastal fringe. **LO:** ICT: path close to the Lab. N of the island. **DP:** ca/cc/ch/cn/da/he/pa/vr/. **AL:** 0/1. **WD:** Mexico to Colombia, also Cuba. **US:** decoction of the plant is used against snake bite (Joly & al., 1987). **VS:** 1344 AI, 16224 SC. **Photo:** 521

**Scoparia dulcis** L.

**CN:** *escoba amargosa* (BH), *escoba amarga*, *escoba de San Pedro*, *escoba dulce*, *escobilla amarga*. **SY:** *Capraria dulcis* (L.) Kuntze **HA:** herb. **HB:** open areas. **LO:** ICT: from Naranjo Amargo to Playa de los Luchos. Top of the island. **DP:** bo/ca/cc/cn/da/he/lo/pa/sa/vr/ch/. **AL:** 0. **WD:** Pantropical. **US:** used as a diuretic, to treat headaches, skin rushes and to dissolve kidney stones (Zapata, 1995; Gupta, 1995). In cases of skin rush, rub the whole plant (BH). **VS:** 1509 AI, 1560 AI, 16063 SC. **Photo:** 522

**Stemodia angulata** Oerst.

**CN:** **SY:** *Lendneria angulata* (Oerst.) Pennell; *Stemodiocris angulata* (Oerst.) Kuntze **HA:** herb. **HB:** open areas. **LO:** BH: Managua Island. **DP:** bo/ca/cc/cn/da/pa/. **AL:** 0. **WD:** S Mexico to Peru. **US:** **VS:** 16236 SC. **Photo:**

**Stemodia verticillata** (Mill.) Hassl.

**CN:** **SY:** *Erinus verticillatus* Mill. **HA:** herb. **HB:** open areas. **LO:** BH: Playa del Sol. Managua Island. **DP:** bo/ca/da/lo/pa/sa/. **AL:** 0. **WD:** Mexico to South America and the Antilles. **US:** **VS:** 16240 SC, 19578 JLFA. **Photo:**

SIMAROUBACEAE

**Simaba cedron** Planch.

**CN:** *cedrón* (BH), *cedrion*. **SY:** *Aruba cedron* (Planch.) Kuntze **HA:** tree to 25 m. **HB:** secondary forests, scrub. **LO:** BH: Playa del Sol. Path to Salmonete. El Edén Plot. ICT. **DP:** da/he/pa/sa/. **AL:** 0. **WD:** Costa Rica, Panama to Bolivia and the

Guianas. \_\_US: to treat liver disorders, malaria, fever, snake bite, to purify the blood and as an insect repellent (blackflies) (Gupta, 1995; Espinosa, 1998). Against malaria, intermittent fever and snake bite (Joly & al., 1987). A tea made out of the seed's scrapings is used against chiggers (coloradillas) (BH). \_\_VS: 16045 SC, 1933 AI, 2233 AI. \_\_Photo:

**Simarouba amara** Aubl.

**CN:** *olivo, aceituno*. \_\_SY: *Quassia simarouba* L. f.; *Simarouba glauca* DC.; *Zingera amara* (Aubl.) Willd. \_\_HA: tree to 30 m. \_\_HB: mature and secondary forests. \_\_LO: BH: El Edén Plot. Between Playa del Sol and Salmonete, Río Luis area. \_\_DP: ca/pa/vr/. \_\_AL: 0. \_\_WD: Belize to Brazil and the Antilles. \_\_US: used of its timber and to treat intestinal parasites (Ocampo & al., 1997). \_\_VS: 16362 SC, 2230 AI, 2276 AI. \_\_Photo:

**SMILACACEAE**

**Smilax domingensis** Willd.

**CN:** \_\_SY: *Smilax lanceolata* L. \_\_HA: vine. \_\_HB: scrub. \_\_LO: BH: path from Playa del Sol to Lerencito. \_\_DP: bo/ca/cc/ch/cn/da/he/pa/sa/vr/. \_\_AL: 0/1/3. \_\_WD: Mexico to Panama and the Antilles. \_\_US: \_\_VS: 1682 AI. \_\_Photo:

**Smilax spinosa** Mill.

**CN:** *coronillo (BH), zarza*. \_\_SY: *Smilax houstoniana* Steud.; *Smilax mexicana* Griseb. ex Kunth; *Smilax wagneriana* A. DC. \_\_HA: vine. \_\_HB: scrub. \_\_LO: BH: from Playa Jeringuita to Playa Blanca. \_\_DP: bo/ca/cc/ch/da/lo/pa/vr/. \_\_AL: 0/1. \_\_WD: Mexico to Panama. \_\_US: \_\_VS: 1907 AI. \_\_Photo: 524 (AE) -525

**SOLANACEAE**

**Cestrum fragile** Francey

**CN:** \_\_SY: \_\_HA: shrub. \_\_HB: scrub. \_\_LO: BH: surroundings of Salmonete. ICT: close to the Lab. \_\_DP: \_\_AL: 0. \_\_WD: Nicaragua to Panama. \_\_US: \_\_VS: 16548 SC, 1783 AI. \_\_Photo:

**Physalis angulata** L.

**CN:** \_\_SY: \_\_HA: herb. \_\_HB: scrub. \_\_LO: BH: between El Suto and Jeringón. \_\_DP: bo/ca/cc/ch/cn/da/he/lo/pa/. \_\_AL: 0. \_\_WD: United States to Argentina and the Antilles; naturalized in most of the world. \_\_US: \_\_VS: 16408 SC. \_\_Photo:

**Solanum argenteum** Dunal ex Poir.

**CN:** \_\_SY: \_\_HA: shrub. \_\_HB: secondary forests. \_\_LO: BH: between El Suto and Jeringón. \_\_DP: bo/ca/cc/ch/da/pa/. \_\_AL: 0/1. \_\_WD: Costa Rica and Panama to Peru and Venezuela. \_\_US: \_\_VS: 16420 SC. \_\_Photo:

**Solanum aturense** Dunal

**CN:** \_\_SY: *Solanum siparunoides* Ewan \_\_HA: shrub. \_\_HB: scrub, open areas. \_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. Río Limón. Between El Suto and Jeringón. ICT: top of the island. \_\_DP: ca/pa/sa/ch/. \_\_AL: 0. \_\_WD: S Mexico to

N South America. \_\_US: \_\_VS: 1507 AI, 16391 SC, 16449 SC, 1965 AI, 1970 AI.  
\_\_Photo: 526-527 (AE)

**Solanum jamaicense** Mill.

CN: *friega plato*, *huevo de gato*. \_\_SY: \_\_HA: shrub. \_\_HB: open areas. \_\_LO: BH: surroundings of Playa Limón. \_\_DP: ca/da/he/pa/sa/vr/. \_\_AL: 0. \_\_WD: United States (Florida), Mexico (Veracruz), Nicaragua, Panama, part of South America and the Antilles. \_\_US: \_\_VS: 16295 SC. \_\_Photo:

**Solanum rudepannum** Dunal

CN: *araña gato*, *friega plato*. \_\_SY: *Solanum ochraceo-ferrugineum* (Dunal) Fernald; *Solanum torvum* var. *ochraceo-ferrugineum* Dunal \_\_HA: shrub. \_\_HB: scrub. \_\_LO: BH: between Playa del Sol and Salmonete, Río Luis area. ICT: from Naranjo Amargo to Playa de los Luchos. \_\_DP: ca/cc/ch/cn/da/he/lo/pa/sa/vr/. \_\_AL: 0. \_\_WD: S Mexico to Colombia, Ecuador and Venezuela. \_\_US: \_\_VS: 1578 AI, 16337 SC.  
\_\_Photo: 528

STAPHYLEACEAE

**Turpinia occidentalis** ssp. *breviflora* Croat

CN: *cedrillo*. \_\_SY: *Staphylea occidentalis* Sw.; *Turpinia pinnata* (Schltdl.) Hemsl.  
\_\_HA: tree to 15 m. \_\_HB: mature and secondary forests. \_\_LO: BH: El Edén Plot.  
\_\_DP: ch/vr/. \_\_AL: 0/1/2. \_\_WD: Mexico to N South America and the Antilles. \_\_US:  
\_\_VS: 2169 AI, 2173 AI, 2223 AI. \_\_Photo:

STERCULIACEAE

**Byttneria aculeata** (Jacq.) Jacq.

CN: *espina hueca*, *espino hueco*, *rabo de iguana*, *rangay*, *zarza*. \_\_SY: *Chaetaea aculeata* Jacq.; *Byttneria carthagenensis* Jacq.; *Byttneria lanceolata* DC. \_\_HA: shrub or vine. \_\_HB: scrub. \_\_LO: BH: form Limón to El Edén. Between Playa del Sol and Salmonete, Río Luis area. \_\_DP: bo/ca/cc/da/pa/vr/. \_\_AL: 0. \_\_WD: Mexico to Bolivia; also Polynesia. \_\_US: \_\_VS: 1523 AI, 16373 SC. \_\_Photo: 529-530

**Guazuma ulmifolia** Lam.

CN: *guásimo de puerco* (BH), *guácimo*. \_\_SY: *Theobroma guazuma* L.; *Guazuma tomentosa* Kunth \_\_HA: tree to 20 m. \_\_HB: open areas. \_\_LO: BH: surroundings of Playa Limón. Playa del Sol. Playa Blanca. \_\_DP: bo/ca/cc/ch/cn/da/he/lo/pa/sa/. \_\_AL: 0. \_\_WD: Mexico to Argentina. \_\_US: to make handicrafts and as firewood. The tree is used for shade and its fruits are eaten by cattle (Santana, 1998). To treat muscle pain, colds and skin problems (Zapata, 1995). \_\_VS: 1597 AI, 16300 SC, 1900 AI. \_\_Photo: 531-532-533

**Sterculia apetala** (Jacq.) H. Karst.

CN: *Panama* (BH), *árbol Panama* (BH). \_\_SY: *Helicteres apetala* Jacq.; *Sterculia carthaginensis* Cav. \_\_HA: tree to 50 m. \_\_HB: mature and secondary forests, coastal fringe. \_\_LO: BH: Playa del Sol. Manglarito. ICT: Plot 1. \_\_DP: ca/cc/ch/da/pa/sa/. \_\_AL: 0. \_\_WD: Mexico to Peru, Brazil and naturalized in the Antilles. \_\_US: used as

ornamental and to make flower arrangements (Santana, 1998). Roasted seeds are eaten (León & Poveda, 2000). \_\_VS: 16017 SC, 1737 AI, 2344 AI. \_\_Photo: 534-535

**Theobroma angustifolium** Sessé & Moç. ex DC.

**CN:** *cacao cimarrón*. \_\_SY: \_\_HA: tree to 25 m. \_\_HB: mature and secondary forests. \_\_LO: BH: between El Suto and Jeringón. Surroundings of Playa Limón. El Edén Plot. \_\_DP: ch/. \_\_AL: 0. \_\_WD: native to Nicaragua to Panama, frequently cultivated. \_\_US: \_\_VS: 2202 AI, 2261 AI, 16282 SC, 16414 SC. \_\_Photo:

**Theobroma cacao** L.

**CN:** *cacao, ciamachi* (K). \_\_SY: *Theobroma pentagonium* Bernoulli; *Theobroma leiocarpum* Bernoulli; *Theobroma sphaerocarpum* A. Chev. \_\_HA: tree to 10 m. \_\_HB: cultivated. \_\_LO: BH: surroundings of Playa Limón. \_\_DP: bo/ca/da/he/pa/. \_\_AL: 0. \_\_WD: apparently it grows wild in S Mexico, Guatemala, Belize and the Amazon basin; widely cultivated in all tropics. \_\_US: fruits are edible and from the seeds, chocolate is made (Simpson & Ogorzaly, 1995). Medicinally it is used to facilitate childbirth (Gupta & al., 1992). \_\_VS: 16283 SC. \_\_Photo:

THEACEAE

**Pelliciera rhizophorae** Triana & Planch.

**CN:** *mangle piñuelo* (BH), *palo de sal*, *pie de santo*. \_\_SY: \_\_HA: tree to 10 m. \_\_HB: mangroves. \_\_LO: BH: El Edén. \_\_DP: ca/da/pa/. \_\_AL: 0. \_\_WD: Nicaragua to Ecuador. \_\_US: \_\_VS: not collected. \_\_Photo: 536-537-538-539

TILIACEAE

**Apeiba tibourbou** Aubl.

**CN:** *cortezo* (BH), *cortez*, *erizo*, *peine de mico*, *peine de mono*. \_\_SY: \_\_HA: tree to 30 m. \_\_HB: open areas and secondary forests. \_\_LO: BH: El Edén Plot. ICT. \_\_DP: ca/cc/ch/cn/da/he/he/pa/sa/vr/. \_\_AL: 0. \_\_WD: S Mexico to Bolivia and Brazil. \_\_US: to treat rheumatism and as a skin antiseptic (Espinosa, 1998). Bark is used to obtain fibers and the fruits in flower arrangements (Santana, 1998). The light wood is used locally for making rafts, posts, boxes, or as paper pulp. Oil is rendered from the small seeds (Pérez & Condit, 2002). It is blended with cow's fat to make soap and bleach (BH). \_\_VS: 16041 SC, 2188 AI. \_\_Photo: 540-541

**Heliocarpus americanus** L.

**CN:** *majaguillo*, *majagua*. \_\_SY: *Heliocarpus popayanensis* Kunth; \_\_HA: tree to 20 m. \_\_HB: secondary forests and scrub. \_\_LO: BH: Playa de Juana. \_\_DP: ca/cc/ch/da/pa/. \_\_AL: 0/1/2. \_\_WD: Mexico to Paraguay and Venezuela. \_\_US: \_\_VS: 1838 AI. \_\_Photo:

**Luehea seemannii** Triana & Planch.

**CN:** *guácimo colorado* (BH), *guácimo molenillo*, *guácimo pacheco*. \_\_SY: \_\_HA: tree to 35 m. \_\_HB: secondary forests o gaps in mature forests. \_\_LO: BH: El Edén. ICT: Plot 1. Between Playa Naranja and the most NW point of the island. \_\_DP: bo/ca/cn/da/he/pa/sa/vr/. \_\_AL: 0. \_\_WD: Belize to Colombia and Venezuela. \_\_US: wood is light and used to make boxes, boards, plywood and paper pulp. It is used in



apiculture (Pérez & Condit, 2002). \_\_VS: 1480 AI, 16124 SC, 1735 AI. \_\_Photo: 542-543

**Trichospermum galeottii** (Turcz.) Kosterm.

**CN:** *guácimo blanco (BH), capulín, majaguillo, majaguillo de monte.* \_\_SY: *Belotia galeottii* Turcz. \_\_HA: tree to 30 m. \_\_HB: secondary forests. \_\_LO: BH: El Edén Plot. From Limón to El Edén. Surroundings of Playa Limón. ICT: path from Playa de los Luchos to N of the island. Between Playa Naranjo and the most NW point of the island. \_\_DP: ca/cc/ch/da/pa/sa/vr/. \_\_AL: 0/1. \_\_WD: S Mexico to N South America. \_\_US: bark is used to extract fiber, wood for paper pulp and as firewood. It has a great potential for apiculture (Pérez & Condit, 2002). \_\_VS: 1413 AI, 1532 AI, 16135 SC, 16257 SC, 2168 AI, 2175 AI. \_\_Photo: 544-545

**Triumfetta lappula** L.

**CN:** *abrojo, cadillo, cepa de caballo, mata de negro, pega-pega, mozote, cadillo de burro, guizado de cochino, mozotillo.* \_\_SY: \_\_HA: shrub. \_\_HB: scrub. \_\_LO: BH: from Limón to El Edén. Between Playa del Sol and Salmonete, Río Luis area. \_\_DP: bo/ca/cc/ch/cn/da/he/lo/pa/sa/. \_\_AL: 0. \_\_WD: Mexico to Bolivia and the Antilles. \_\_US: used to treat kidney problems (Zapata, 1995). \_\_VS: 1543 AI, 16342 SC. \_\_Photo: 546-547-548

TURNERACEAE

**Erblichia odorata** Seem.

**CN:** *monterillo.* \_\_SY: *Piriqueta odorata* (Seem.) Urb. \_\_HA: tree to 30 m. \_\_HB: secondary forests. \_\_LO: BH: between El Suto and Jeringón. Cativito. From Playa Jeringuita to Playa Blanca. ICT: Plot 1. \_\_DP: cc/ch/pa/vr/. \_\_AL: 0. \_\_WD: S Mexico and Central America. \_\_US: \_\_VS: 16438 SC, 1739 AI, 1913 AI, 2123 AI. \_\_Photo: 549 (AE)

ULMACEAE

**Celtis iguanaea** (Jacq.) Sarg.

**CN:** *cagalera.* \_\_SY: *Rhamnus iguanaea* Jacq. \_\_HA: shrub or tree to 12 m. \_\_HB: scrub. \_\_LO: BH: Río Seco headwaters. Punta Gorda ridge. \_\_DP: ca/da/pa/. \_\_AL: 0. \_\_WD: SE United States and Mexico to South America and the Antilles. \_\_US: \_\_VS: 16454 SC, 2076 AI. \_\_Photo:

**Trema micrantha** (L.) Blume

**CN:** *recortero del negro (BH), capulín, capulín blanco, jordancillo.* \_\_SY: *Rhamnus micrantha* L. \_\_HA: shrub or tree to 12 m. \_\_HB: secondary forests, scrub. \_\_LO: ICT: path from Playa de los Luchos to N of the island. Plot 1. \_\_DP: bo/ca/cc/ch/cn/da/he/lo/pa/sa/vr/. \_\_AL: 0/1/2. \_\_WD: United States (Florida), Central and South America and the Antilles. \_\_US: used to obtain fibers. Coal is made from the wood (Montenegro, 1996). \_\_VS: 1419 AI, 1875 AI. \_\_Photo: 550-551

URTICACEAE

**Myriocarpa longipes** Liebm.

**CN:** *pasma de agua* (BH). **SY:** *Myriocarpa yzabalensis* (Donn. Sm.) Killip **HA:** shrub or tree to 12 m. **HB:** mature and secondary forests, river banks. **LO:** BH: Manglarito. Between Playa del Sol and Salmonete, Río Luis area. ICT: forest N of the island. **DP:** bo/ca/cc/ch/cn/da/lo/pa/vr/. **AL:** 0/1. **WD:** Mexico to Colombia (Chocó). **US:** **VS:** 1440 AI, 16347 SC, 1650 AI. **Photo:** 552-553-554

**Pilea sp.1**

**CN:** **SY:** **HA:** scandent herb. **HB:** forests. **LO:** BH: Río Limón. **DP:** **AL:** **WD:** **US:** **VS:** 1986 AI. **Photo:**

**Pilea sp.2**

**CN:** **SY:** **HA:** herb. **HB:** forests. **LO:** BH: Río Seco headwaters. **DP:** **AL:** **WD:** **US:** **VS:** 2055 AI. **Photo:**

VERBENACEAE

**Avicennia germinans** (L.) L.

**CN:** *mangle negro, mangle salado, black mangrove*. **SY:** *Bontia germinans* L.; *Avicennia nitida* Jacq. **HA:** shrub or tree to 10 m. **HB:** mangroves. **LO:** BH: El Edén. **DP:** bo/ca/cc/cn/lo/pa/sa/. **AL:** 0. **WD:** from United States (S Florida) to Panama on the Atlantic coast; and Mexico to Peru on the Pacific coast; the Antilles; also in W Africa. **US:** wood used for posts and construction; also as firewood and to make coal; from the bark, tannins are obtained (Little & Wadsworth, 1964). **VS:** not collected. **Photo:** 555

**Callicarpa acuminata** Kunth

**CN:** *no te conozco*. **SY:** **HA:** shrub. **HB:** coastal fringe, scrub. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. Playa del Sol. **DP:** bo/cn/da/pa/sa/vr/. **AL:** 0. **WD:** Mexico to Bolivia. **US:** **VS:** 1660 AI, 16366 SC. **Photo:** 556-557

**Clerodendron bungei** Steud.

**CN:** **SY:** **HA:** shrub. **HB:** cultivated. **LO:** BH: between El Suto and Jeringón. **DP:** **AL:** 0. **WD:** native from China to N India; cultivated in the tropics. **US:** **VS:** 16442 SC. **Photo:**

**Cornutia microcalycina** Pav. ex Moldenke

**CN:** **SY:** **HA:** shrub. **HB:** scrub. **LO:** BH: El Edén. **DP:** ca/cc/da/. **AL:** 0. **WD:** South America. **US:** **VS:** 2140 AI. **Photo:**

**Gmelina arborea** Roxb. ex Sm.

**CN:** *melina*. **SY:** **HA:** tree to 15 m. **HB:** cultivated. **LO:** BH: between Playa del Sol and Salmonete, Río Luis area. **DP:** . **AL:** 0. **WD:** native to Asia; cultivated in the tropics. **US:** timber yielding species and as paper pulp (León & Poveda, 2000). Planted as ornamental on avenues in Panama City (M. Stapf, per.com.). **VS:** 16364 SC, 16569 SC. **Photo:**

**Lantana camara** L.

**CN:** *cinco negritos, camara, pasorín, san Rafaelito, siete colores, siete negritos.* **\_\_SY:** **\_\_HA:** shrub. **\_\_HB:** open areas. **\_\_LO:** BH: El Edén. Between Playa del Sol and Salmonete, Río Luis area. **\_\_DP:** ca/cc/ch/cn/da/he/lo/pa/sa/vr/. **\_\_AL:** 0. **\_\_WD:** native to the Greater Antilles and introduced in the world tropics and subtropics. **\_\_US:** used in digestive problems, spasms, as an haemostatic and period disorders (Zapata, 1995). **\_\_VS:** 1479 AI, 16326 SC. **\_\_Photo:** 558-559

**Lantana trifolia** L.

**CN:** **\_\_SY:** *Lantana maxima* Hayek; *Lantana trifolia* f. *hirsuta* Moldenke; *Lantana trifolia* f. *oppositifolia* Moldenke **\_\_HA:** shrub. **\_\_HB:** scrub. **\_\_LO:** BH: between Playa del Sol and Salmonete, Río Luis area. ICT: Playa de los Luchos. **\_\_DP:** bo/ca/ch/cn/he/pa/vr/. **\_\_AL:** 0. **\_\_WD:** Mexico to Argentina and the Antilles. **\_\_US:** **\_\_VS:** 1394 AI, 16332 SC. **\_\_Photo:** 560-561

**Lippia alba** (Mill.) N.E. Br. ex Britton & P. Wilson

**CN:** *mastranto, orozul, salvia morada.* **\_\_SY:** *Lantana alba* Mill. **\_\_HA:** herb. **\_\_HB:** open areas, scrub. **\_\_LO:** BH: from Jeringuita to Jeringón. **\_\_DP:** ch/cn/pa/vr/. **\_\_AL:** 0. **\_\_WD:** United States (Texas) to Argentina and the Antilles. **\_\_US:** digestive disorders, antispasmodic in liver colics. A tea from the plant is used for coughs and colds (Gupta, 1995). **\_\_VS:** 2004 AI. **\_\_Photo:**

**Lippia americana** L.

**CN:** *mastranto, belita, orégano macho, mano de Dios, mamoncillo.* **\_\_SY:** **\_\_HA:** herb. **\_\_HB:** scrub. **\_\_LO:** BH: from "Cativo Forest" near Río Luis to Playa del Sol. El Edén. Path from Playa del Sol to Lerencito. **\_\_DP:** he/lo/. **\_\_AL:** 0. **\_\_WD:** Panama to Colombia and Ecuador. **\_\_US:** **\_\_VS:** 1517 AI, 1598 AI, 1685 AI. **\_\_Photo:** 562-563

**Lippia oxyphyllaria** (Donn. Sm.) Standl.

**CN:** *caragra.* **\_\_SY:** *Lippia substrigosa* var. *oxyphyllaria* Donn. Sm. **\_\_HA:** shrub. **\_\_HB:** scrub. **\_\_LO:** ICT: path from JP's house to Playa del Laboratorio. Path from Playa de los Luchos to N of the island. **\_\_DP:** cc/ch/vr/. **\_\_AL:** 0. **\_\_WD:** Honduras to Panama. **\_\_US:** **\_\_VS:** 16034 SC, 1422 AI, 1505 AI. **\_\_Photo:** 564-565-566-567

**Petrea volubilis** L.

**CN:** *adelfa, adolfina, bejuco de ajo, biura, flor de la cruz, flor de Santa María.* **\_\_SY:** *Petrea volubilis* var. *pubescens* Moldenke; *Petrea aspera* Turcz.; *Petrea aspera* f. *albiflora* Moldenke **\_\_HA:** shrub or vine. **\_\_HB:** forests. **\_\_LO:** BH: Río Limón. Playa del Sol. **\_\_DP:** vr/lo/ca/pa/sa/da. **\_\_AL:** 0. **\_\_WD:** N Mexico to Bolivia, Brazil, Paraguay and the Antilles. **\_\_US:** ornamental (Stevens & al., 2001). **\_\_VS:** 1820 AI, 1971 AI, 2135 AI. **\_\_Photo:** 568 (AE)

**Priva lappulacea** (L.) Pers.

**CN:** *amor seco, cadillo, mozote, pega-pega.* **\_\_SY:** *Verbena lappulacea* L.; *Priva lappulacea* f. *albiflora* Moldenke **\_\_HA:** herb. **\_\_HB:** open areas, scrub. **\_\_LO:** BH: surroundings of Salmonete. **\_\_DP:** bo/ca/ch/cn/da/he/pa/. **\_\_AL:** 0. **\_\_WD:** S United States to Bolivia and the Antilles. **\_\_US:** **\_\_VS:** 16568 SC. **\_\_Photo:**

**Stachytarpheta cayennensis** (Rich.) Vahl

**CN:** *cola de millo, verbena, verbena falsa, verbena negra.* **SY:** *Verbena cayennensis* Rich.; *Stachytarpheta dichotoma* (Ruiz & Pav.) Vahl **HA:** shrub. **HB:** open areas, scrub. **LO:** BH: from Limón to El Edén. Between Playa del Sol and Salmonete, Río Luis area. **DP:** ca/cc/ch/cn/da/pa/vr/. **AL:** 0. **WD:** Mexico to South America and the Antilles; introduced and naturalized in the Old World tropics. **US:** **VS:** 16324 SC, 1547 AI. **Photo:** 569-570

**Tectona grandis** L.

**CN:** *teca.* **SY:** **HA:** tree to 15 m. **HB:** cultivated. **LO:** BH: Playa del Sol. **DP:** **AL:** **WD:** native to SE Asia; widely cultivated in the tropics. **US:** timber yielding species. Young leaves used as colorants (León & Poveda, 2000). **VS:** not collected. **Photo:**

**Vitex cooperi** Standl.

**CN:** *cuajá (BH), cuajá de montaña (BH); cuajado.* **SY:** **HA:** tree to 40 m. **HB:** mature and secondary forests, river banks. **LO:** BH: El Edén Plot. Surroundings of Salmonete. Surroundings of Playa Limón. Cativito. **DP:** ca/ch/da/vr/. **AL:** 0. **WD:** Guatemala to Panama. **US:** **VS:** 16290 SC, 16544 SC, 2131 AI, 2172 AI. **Photo:**

**Vitex cymosa** Bertero ex Spreng.

**CN:** *cuajao, cuajado, tarumá.* **SY:** *Vitex discolor* Glaz.; *Jatropha tomentosa* Spreng. **HA:** tree to 15 m. **HB:** open areas. **LO:** BH: Playa del Sol. **DP:** da/. **AL:** 0. **WD:** Panama to Paraguay and Venezuela. **US:** **VS:** 1951 AI. **Photo:** 571 (AE)

VIOLACEAE

**Gloeospermum eneidense** Hekking

**CN:** **SY:** **HA:** tree to 20 m. **HB:** mature and secondary forests. **LO:** BH: El Edén Plot. **DP:** pa/cc/. **AL:** 0. **WD:** America Central ?. **US:** **VS:** 2211 AI, 2240 AI. **Photo:**

**Rinorea squamata** S.F. Blake

**CN:** *guayacillo, molenillo.* **SY:** **HA:** tree to 8 m. **HB:** river banks. **LO:** BH: banks of Río Limón. **DP:** bo/ca/cc/cn/da/pa/sa/. **AL:** 0. **WD:** Nicaragua to Panama. **US:** **VS:** 1798 AI, 1802 AI. **Photo:**

VISACEAE

**Phoradendron piperoides** (Kunth) Trel.

**CN:** *matapalo, muérdago.* **SY:** *Loranthus piperoides* Kunth **HA:** parasitic shrub. **HB:** forests, open areas. **LO:** ICT: Plot 1. **DP:** bo/ca/cc/ch/da/pa/sa/. **AL:** 0/1. **WD:** Mexico to Bolivia and Argentina; the Antilles. **US:** **VS:** 1750 AI. **Photo:**

VITACEAE

**Cissus erosa** Rich.

**CN:** *bejuco araña* (BH). **SY:** *Cissus salutaris* Kunth **HA:** vine. **HB:** open areas, scrub. **LO:** ICT: path from Playa de los Luchos to N of the island. Top of the island. N of the island. **DP:** ca/cc/cn/da/he/pa/sa/vr/. **AL:** 0. **WD:** Mexico to Brazil and Paraguay; the Antilles. **US:** **VS:** 1353 AI, 1420 AI, 16058 SC, 16173 SC. **Photo:** 572-573

**Cissus fuliginea** Kunth

**CN:** **SY:** *Cissus pseudosicyoides* Croat **HA:** vine. **HB:** scrub, secondary forests. **LO:** BH: Punta Gorda ridge. **DP:** bo/ca/ch/cn/da/lo/pa/vr/. **AL:** 0. **WD:** Nicaragua to Venezuela. **US:** **VS:** 16473 SC. **Photo:**

**Cissus microcarpa** Vahl

**CN:** **SY:** *Vitis chontalensis* Seem.; *Cissus chontalensis* (Seem.) Planch. **HA:** vine. **HB:** scrub, secondary forests. **LO:** BH: between El Suto and Jeringón. ICT: between Playa Naranjo and the most NW point of the island. **DP:** bo/ca/cc/ch/cn/he/pa/vr/. **AL:** 0/2. **WD:** Mexico to Bolivia and the Antilles. **US:** **VS:** 16118 SC, 16424 SC. **Photo:**

VOCHYSIACEAE

**Vochysia ferruginea** Mart.

**CN:** *maya* (BH), *flor de mayo*, *mayo*, *pegle*, *yemerí*. **SY:** *Cucullaria ferruginea* (Mart.) Spreng.; *Vochysia tomentosa* Seem.; *Vochysia ferruginea* (Mart.) Standl. **HA:** tree to 30 m. **HB:** mature and secondary forests. **LO:** BH: between El Suto and Jeringón. El Edén Plot. ICT: Plot 1. Forest N of the island. **DP:** bo/ca/cc/ch/cn/pa/sa/vr/. **AL:** 0. **WD:** Honduras to Panama. **US:** timber used in carpentry, posts for fences, boxes, matches and for paper pulp production. Used in apiculture (Pérez & Condit, 2002). **VS:** 16413 SC, 1860 AI, 1995 AI, 2196 AI. **Photo:** 574 (AE)

ZINGIBERACEAE

**Curcuma** sp.1

**CN:** **SY:** **HA:** herb. **HB:** cultivated. **LO:** BH: from Jeringuita to Playa Blanca. **DP:** **AL:** **WD:** **US:** **VS:** 1930 AI. **Photo:** 575-576-577-578 (AE)

**Renealmia alpinia** (Rottb.) Maas

**CN:** *chírca* (BH). **SY:** *Amomum alpinia* Rottb.; *Renealmia exaltata* L. f. **HA:** herb to 5 m. **HB:** forest gaps. **LO:** ICT: path from Playa de los Luchos to N of the island. N of the island. **DP:** bo/ca/cc/ch/cn/da/pa/. **AL:** 0. **WD:** Mexico to tropical South America and the Lesser Antilles. **US:** **VS:** 1434 AI, 16160 SC. **Photo:** 579-580-581

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## Appendix I

### List of Fern (Pteridophyta) species grouped by family

#### ASPLENIACEAE

*Asplenium serratum* L.

*Asplenium* sp.1

*Asplenium* sp.2

#### BLECHNACEAE

*Blechnum occidentale* L.

#### CYATHEACEAE

*Cyathea multiflora* Sm.

#### DAVALLIACEAE

*Nephrolepis biserrata* (Sw.) Schott

#### DENNSTAEDTIACEAE

*Pteridium arachnoideum* (Kaulf.) Maxon

#### GLEICHENIACEAE

*Dicranopteris pectinata* (Willd.) Underw.

#### HYMENOPHYLLACEAE

*Hymenophyllum polyanthos* (Sw.) Sw.

*Trichomanes hymenophylloides* Bosch

*Trichomanes pinnatum* Hedw.

#### LOMARIOPSISACEAE

*Elaphoglossum christianeae* Mickel

#### LYCOPODIACEAE

*Lycopodiella cernua* (L.) Pic. Serm.

#### MARATTIACEAE

*Danaea nodosa* (L.) Sm.

#### METAXYACEAE

*Metaxya rostrata* (Kunth) C. Presl

#### POLYPODIACEAE

*Campyloneurum phyllitidis* (L.) C. Presl

*Microgramma percussa* (Cav.) de la Sota

*Pleopeltis astrolepis* (Liebm.) E. Fourn.

*Polypodium attenuatum* Humb. & Bonpl. ex Willd.

*Polypodium polypodioides* (L.) Watt var. *polypodioides*

#### PTERIDACEAE

*Acrostichum aureum* L.

*Adiantum lunulatum* Burm. f.

*Adiantum petiolatum* Desv.

*Adiantum pulverulentum* L.

*Adiantum seemannii* Hook.  
*Adiantum tetraphyllum* Humb. & Bonpl. ex Willd.  
*Pityrogramma calomelanos* (L.) Link  
*Pteris altissima* Poir.  
*Pteris pungens* Willd.

#### SCHIZAEACEAE

*Anemia oblongifolia* (Cav.) Sw.  
*Anemia pastinacaria* Moritz ex Prantl  
*Lygodium venustum* Sw.  
*Schizaea elegans* (Vahl) Sm.

#### SELAGINELLACEAE

*Selaginella flagellata* Spring  
*Selaginella viticulosa* Klotzsch

#### THELYPTERIDACEAE

*Thelypteris minor* (C. Chr.) A.R. Sm.

#### VITTARIACEAE

*Vittaria costata* Kunze  
*Vittaria lineata* (L.) Sm.

## Appendix II

### List of Angiosperm species grouped by family

#### ACANTHACEAE

*Aphelandra scabra* (Vahl) Sm.  
*Barleria oenotheroides* Dum. Cours.  
*Blechum pyramidatum* (Lam.) Urb.  
*Elytraria imbricata* (Vahl) Pers.  
*Hygrophila costata* Nees  
*Justicia isthmensis* J.F. Daniel  
*Lepidagathis alopecuroidea* (Vahl) R.Br. ex Griseb.  
*Mendoncia retusa* Turill  
*Nelsonia brunelloides* (Lam.) Kuntze  
*Ruellia macrophylla* Vahl  
*Ruellia tubiflora* var. *tetrasticantha* (Lindau) Leonard  
*Thunbergia fragrans* Roxb.

#### AMARANTHACEAE

*Alternanthera* sp. 1  
*Amaranthus dubius* Mart. ex Thell.  
*Chamissoa altissima* (Jacq.) Kunth  
*Cyathula achyranthoides* (Kunth) Moq.  
*Cyathula prostrata* (L.) Blume  
*Iresine diffusa* Humb. & Bonpl. ex Willd.

#### AMARYLLIDACEAE

*Hymenocallis littoralis* (Jacq.) Salisb.

#### ANACARDIACEAE

*Anacardium excelsum* (Bertero & Balb. ex Kunth) Skeels

*Anacardium occidentale* L.

*Astronium graveolens* Jacq.

*Mangifera indica* L.

*Spondias mombin* L.

*Spondias purpurea* L.

#### ANNONACEAE

*Annona muricata* L.

*Annona purpurea* Moc. & Sessé ex Dunal

*Duguetia panamensis* Standl.

*Guatteria recurvisepala* R.E. Fr.

*Oxandra longipetala* R.E. Fr.

*Oxandra venezuelana* R.E. Fr.

*Rollinia mucosa* (Jacq.) Baill.

*Xylopia frutescens* Aubl.

#### APOCYNACEAE

*Lacmellea panamensis* (Woodson) Markgr.

*Mandevilla hirsuta* (Rich.) K. Schum.

*Mesechites trifida* (Jacq.) Müll. Arg.

*Odontadenia puncticulosa* (Rich.) Pulle

*Peltastes colombianus* Woodson

*Plumeria rubra* L.

*Prestonia quinquadrangularis* (Jacq.) Spreng.

*Rhabdadenia biflora* (Jacq.) Müll. Arg.

*Stemmadenia grandiflora* (Jacq.) Miers

*Tabernaemontana arborea* Rose

*Thevetia ahouai* (L.) A. DC.

#### ARACEAE

*Anthurium clavigerum* Poepp.

*Dieffenbachia* sp.1

*Monstera adansonii* var. *laniata* (Schott) Madison

*Monstera dissecta* (Schott) Croat & Grayum

*Philodendron sagittifolium* Liebm.

*Syngonium* sp.

*Xanthosoma mexicanum* Liebm.

#### ARALIACEAE

*Dendropanax arboreus* (L.) Decne. & Planch.

*Schefflera morototoni* (Aubl.) Maguire, Steyerf. & Frodin

#### ARECACEAE

*Acrocomia aculeata* (Jacq.) Lodd. ex Mart.

*Astrocaryum standleyanum* L.H. Bailey

*Bactris major* Jacq. var. *major*

*Cocos nucifera* L.

*Desmoncus orthacanthos* Mart.

*Elaeis oleifera* (Kunth) Cortés

*Geonoma deversa* (Poit.) Kunth

*Geonoma interrupta* (Ruiz & Pav.) Mart.

*Geonoma* sp.1

*Oenocarpus minor* Mart.

ARISTOLOCHIACEAE

*Aristolochia pilosa* Kunth

ASCLEPIADACEAE

*Asclepias curassavica* L.

*Blepharodon mucronatum* (Schltdl.) Decne.

ASTERACEAE

*Acmella alba* (L'Her.) R.K. Jansen

*Ayapana elata* (Steetz) R.M. King & H. Rob.

*Baccharis trinervis* (Lam.) Pers.

*Baltimora recta* L.

*Calea jamaicensis* (L.) L.

*Centratherum punctatum* Cass.

*Chaptalia nutans* (L.) Pol.

*Chromolaena odorata* (L.) R.M. King & H. Rob.

*Clibadium* sp.

*Condylidium iresinoides* (Kunth) R.M. King & H. Rob.

*Conyza bonariensis* (L.) Cronquist

*Eclipta prostrata* (L.) L.

*Elephantopus angustifolius* Sw.

*Elephantopus mollis* Kunth

*Fleischmannia misera* (B.L. Rob.) R.M. King & H. Rob.

*Fleischmannia pratensis* (Klatt) R.M. King & H. Rob.

*Heterocondylus vitalbae* (DC.) R.M. King & H. Rob.

*Lepidaploa canescens* (Kunth) H. Rob.

*Melampodium divaricatum* (Rich. ex Pers.) DC.

*Melanthera aspera* (Jacq.) Small var. *aspera*

*Neurolaena lobata* (L.) R. Br. ex Cass.

*Sphagneticola trilobata* (L.) Pruski

*Vernonanthura patens* (Kunth) H. Rob.

BEGONIACEAE

*Begonia* sp.

BIGNONIACEAE

*Amphitecna latifolia* (Mill.) A.H. Gentry

*Anemopaegma orbiculatum* (Jacq.) DC.

*Arrabidaea patellifera* (Schltdl.) Sandwith

*Crescentia cujete* L.

*Godmania aesculifolia* (Kunth) Standl.

*Macfadyena unguis-cati* (L.) A.H. Gentry

*Mansoa* sp. 1

*Mussatia hyacinthina* (Standl.) Sandwith

*Paragonia pyramidata* (Rich.) Bureau

*Pithecoctenium crucigerum* (L.) A.H. Gentry

*Pleonotoma variabilis* (Jacq.) Miers.

*Tabebuia palustris* Hemsl.

*Tabebuia rosea* (Bertol.) DC.

BIXACEAE

*Bixa orellana* L.

BOMBACACEAE

*Ceiba pentandra* (L.) Gaertn.  
*Ochroma pyramidale* (Cav. ex Lam.) Urb.  
*Pachira aquatica* Aubl.  
*Pachira quinata* (Jacq.) W.S. Alverson  
*Pachira sessilis* Benth.  
*Pseudobombax septenatum* (Jacq.) Dugand

#### BORAGINACEAE

*Cordia alliodora* (Ruiz & Pav.) Oken  
*Cordia bicolor* A. DC.  
*Cordia collococca* L.  
*Cordia panamensis* L. Riley  
*Cordia spinescens* L.  
*Heliotropium indicum* L.  
*Tournefortia bicolor* Sw.  
*Tournefortia hirsutissima* L.

#### BROMELIACEAE

*Aechmea magdalenae* (André) André ex Baker  
*Ananas comosus* (L.) Merr.  
*Pitcairnia megasepala* Baker  
*Tillandsia anceps* G. Lodd.  
*Tillandsia monadelphina* (E. Morren) Baker  
*Tillandsia sp.1*  
*Vriesea sp.1*  
*Vriesea sp.2*

#### BURMANNIACEAE

*Apteris aphylla* (Nutt.) Barnhart ex Small

#### BURSERACEAE

*Bursera simaruba* (L.) Sarg.  
*Protium tenuifolium* ssp. *mcleodii* (I.M. Johnst.) D.M. Porter  
*Tetragastris panamensis* (Engl.) Kuntze

#### CACTACEAE

*Epiphyllum phyllanthus* (L.) Haw.

#### CANNACEAE

*Canna indica* L.

#### CAPPARIDACEAE

*Capparis amplissima* Lam.  
*Capparis frondosa* Jacq.

#### CARYOPHYLLACEAE

*Drymaria cordata* (L.) Willd. ex Schult.

#### CECROPIACEAE

*Cecropia insignis* Liebm.  
*Cecropia peltata* L.  
*Pourouma bicolor* ssp. *scobina* (Benoist) C.C. Berg & van Heusden

#### CELASTRACEAE

*Maytenus schippii* Lundell

CHRYSOBALANACEAE

*Chrysobalanus icaco* L.

*Hirtella racemosa* var. *hexandra* (Willd. ex Roem. & Schult.) Prance

*Hirtella triandra* Sw. ssp. *triandra*

*Licania arborea* Seem.

*Licania hypoleuca* Benth.

*Licania platypus* (Hemsl.) Fritsch

*Parinari chochoensis* Prance

*Chryso* sp.1

CLETHRACEAE

*Clethra lanata* M. Martens & Galeotti

CLUSIACEAE

*Calophyllum brasiliense* Cambess.

*Calophyllum inophyllum* L.

*Calophyllum longifolium* Willd.

*Clusia pratensis* Seem.

*Clusia rosea* Jacq.

*Garcinia intermedia* (Pittier) Hammel

*Marila laxiflora* Rusby

*Vismia baccifera* (L.) Triana & Planch.

COCHLOSPERMACEAE

*Cochlospermum vitifolium* (Willd.) Spreng.

COMBRETACEAE

*Buchenavia capitata* (Vahl) Eichler

*Combretum fruticosum* (Loefl.) Stuntz

*Combretum laxum* Jacq.

*Conocarpus erectus* L.

*Laguncularia racemosa* (L.) C.F. Gaertn.

*Terminalia amazonia* (J.F. Gmel.) Exell

*Terminalia catappa* L.

*Terminalia oblonga* (Ruiz & Pav.) Steud.

COMMELINACEAE

*Dichorisandra hexandra* (Aubl.) Standl.

*Murdannia nudiflora* (L.) Brenan

CONNARACEAE

*Cnestidium rufescens* Planch.

*Connarus panamensis* Griseb.

CONVOLVULACEAE

*Bonamia* sp.1

*Ipomoea mauritiana* Jacq.

*Ipomea* sp.1

*Ipomea* sp.2

*Merremia umbellata* (L.) Hallier f.

*Odonellia hirtiflora* (M. Martens & Galeotti) K.R. Robertson

COSTACEAE

*Costus guanaiensis* var. *macrostrobilus* (K. Schum.) Maas

*Costus pulverulentus* C. Presl  
*Costus scaber x lasius*  
*Costus villosissimus* Jacq.

#### CUCURBITACEAE

*Melothria scabra* Naudin  
*Melothria trilobata* Cogn.  
*Psiguria warscewiczii* (Hook. f.) Wunderlin  
*Rytidostylis gracilis* Hook. & Arn.

#### CYCLANTHACEAE

*Asplundia alata* Harling  
*Carludovica palmata* Ruiz & Pav.  
*Cyclanthus bipartitus* Poit. ex A. Rich.

#### CYPERACEAE

*Cyperus laxus* Lam.  
*Cyperus ligularis* L.  
*Cyperus luzulae* (L.) Retz.  
*Eleocharis* sp.  
*Fimbristylis dichotoma* (L.) Vahl  
*Rhynchospora cephalotes* (L.) Vahl  
*Rhynchospora nervosa* ssp. *ciliata* T. Koyama  
*Rhynchospora polyphylla* (Vahl) Vahl  
*Scleria melaleuca* Rchb. ex Schlttdl. & Cham.  
*Scleria mitis* P.J. Bergius  
*Scleria secans* (L.) Urb.

#### DILLENIACEAE

*Curatella americana* L.  
*Davilla kunthii* A. St.-Hil.  
*Dolioscarpus multiflorus* Standl.  
*Tetracera volubilis* L.

#### DIOSCOREACEAE

*Dioscorea mexicana* Scheidw.

#### ELAEOCARPACEAE

*Sloanea terniflora* (Moç. & Sessé ex DC.) Standl.

#### ERYTHROXYLACEAE

*Erythroxylum macrophyllum* Cav.  
*Erythroxylum panamense* Turcz.

#### EUPHORBIACEAE

*Acalypha diversifolia* Jacq.  
*Acalypha macrostachya* Jacq.  
*Acalypha villosa* Jacq.  
*Acidoton nicaraguensis* (Hemsl.) G.L. Webster  
*Alchornea costaricensis* Pax & K. Hoffm.  
*Alchornea grandis* Benth.  
*Chamaesyce densiflora* (Klotzsch & Garcke) Millsp.  
*Chamaesyce hyssopifolia* (L.) Small  
*Cnidioscolus urens* (L.) Arthur  
*Croton schiedeanus* Schlttdl.

*Croton trinitatis* Millsp.  
*Dalechampia cissifolia* ssp. *panamensis* (Pax & K. Hoffm.) G.L. Webster  
*Hippomane mancinella* L.  
*Hyeronima alchorneoides* Allemão  
*Jatropha curcas* L.  
*Mabea occidentalis* Benth.  
*Manihot esculenta* Crantz  
*Margaritaria nobilis* L. f.  
*Omphalea diandra* L.  
*Pausandra trianae* (Müll. Arg.) Baill.  
*Phyllanthus urinaria* L.  
*Sapium glandulosum* (L.) Morong  
*Tetrorchidium rotundatum* Standl.

#### FABACEAE-CAESALPINOIDEAE

*Bauhinia guianensis* Aubl.  
*Caesalpinia crista* L.  
*Copaifera aromatica* Dwyer  
*Hymenaea courbaril* L.  
*Mora oleifera* (Triana ex Hemsl.) Ducke  
*Prioria copaifera* Griseb.  
*Senna hayesiana* (Britton & Rose) H.S. Irwin & Barneby  
*Senna reticulata* (Willd.) H.S. Irwin & Barneby

#### FABACEAE-MIMOSOIDEAE

*Acacia collinsii* Saff.  
*Albizia adinocephala* (Donn. Sm.) Britton & Rose  
*Calliandra* sp.1  
*Calliandra* sp.2  
*Cojoba rufescens* (Benth.) Britton & Rose  
*Cojoba tubulifera* (Benth.) Britton & Rose  
*Entada monostachya* DC.  
*Entadopsis polystachya* (L.) Britton in Britton & Rose  
*Enterolobium schomburgkii* (Benth.) Benth.  
*Inga acuminata* Benth.  
*Inga densiflora* Benth.  
*Inga mucuna* Walp. & Duchass.  
*Inga nobilis* ssp. *quaternata* (Poepp.) T.D. Penn.  
*Inga punctata* Willd.  
*Inga sapindoides* Willd.  
*Inga sertulifera* ssp. *lectopus* (Benth.) T.D. Penn.  
*Inga spectabilis* (Vahl) Willd.  
*Inga thibaudiana* DC. ssp. *thibaudiana*  
*Inga umbellifera* (Vahl) Steud.  
*Mimosa pudica* var. *unijuga* (Duchass. & Walp.) Griseb.  
*Zigia longifolia* (Humb. & Bonpl. es Willd.) Britton & Rose

#### FABACEAE-PAPILIONOIDEAE

*Aeschynomene americana* L.  
*Andira inermis* (W. Wright) Kunth ex DC.  
*Cajanus cajan* (L.) Millsp.  
*Calopogonium mucunoides* Desv.  
*Canavalia rosea* (Sw.) DC.  
*Canavalia villosa* Benth.  
*Centrosema virginianum* (L.) Benth.



*Clitoria javitensis* var. *portobellensis* (Beurl.) Fantz  
*Dalbergia brownei* (Jacq.) Schinz  
*Dalbergia monetaria* L. f.  
*Desmodium adscendens* (Sw.) DC.  
*Desmodium axillare* (Sw.) DC.  
*Dioclea reflexa* Hook. f.  
*Diphysa americana* (Mill.) M. Sousa  
*Erythrina berteroana* Urb.  
*Erythrina fusca* Lour.  
*Lonchocarpus chiricanus* Pittier  
*Lonchocarpus heptaphyllus* (Poir.) DC.  
*Machaerium isadelphum* (E. Mey.) Amshoff  
*Machaerium kegelii* Meisn.  
*Machaerium milleflorum* Pittier  
*Machaerium seemannii* Benth. in Seem.  
*Mucuna mutisiana* (Kunth) DC.  
*Muellera moniliformis* L. f.  
*Ormosia coccinea* var. *subsimplax* (Spruce ex Benth.) Rudd  
*Platymiscium pinnatum* (Jacq.) Dugand  
*Platypodium elegans* Vogel  
*Pterocarpus officinalis* Jacq. ssp. *officinalis*  
*Pueraria phaseoloides* (Roxb.) Benth.  
*Swartzia simplex* var. *continentalis* Urb.  
*Vigna adenantha* (G. Mey.) Maréchal, Mascherpa & Stainier

#### FLACOURTIACEAE

*Banara guianensis* Aubl.  
*Casearia commersoniana* Cambess.  
*Casearia guianensis* (Aubl.) Urb.  
*Casearia sylvestris* Sw. var. *sylvestris*  
*Lacistema aggregatum* (P.J. Bergius) Rusby  
*Lozania pittieri* (S.F. Blake) L.B. Sm.  
*Xylosma chlorantha* Donn. Sm.

#### GENTIANACEAE

*Chelonanthus alatus* (Aubl.) Pulle  
*Coutoubea spicata* Aubl.  
*Lisianthus seemannii* (Griseb.) Kuntze  
*Schultesia lisianthoides* (Griseb.) Benth. & Hook. f. ex Hemsl.  
*Voyria* sp.

#### GESNERIACEAE

*Besleria laxiflora* Benth.  
*Chrysothemis pulchella* (Donn ex Sims) Decne.  
*Drymonia* sp. 1  
*Kohleria spicata* (Kunth) Oerst.

#### HAEMODORACEAE

*Xiphidium caeruleum* Aubl.

#### HELICONIACEAE

*Heliconia colgantea* R.R. Sm. ex G.S. Daniels & F.G. Stiles  
*Heliconia imbricata* (Kuntze) Baker  
*Heliconia latispatha* Benth.

*Heliconia latispatha x imbricata*  
*Heliconia metallica* Planch. & Linden ex Hook.  
*Heliconia platystachys* Baker  
*Heliconia wagneriana* Petersen

#### HIPPOCRATEACEAE

*Salacia* sp.1

#### LAMIACEAE

*Hyptis capitata* Jacq.  
*Hyptis mutabilis* (Rich.) Briq.  
*Hyptis verticillata* Jacq.  
*Ocimum campechianum* Mill.  
*Ocimum sanctum* L.  
*Salvia lasiocephala* Hook. & Arn.  
*Salvia occidentalis* Sw.

#### LAURACEAE

*Cinnamomum triplinerve* (Ruiz & Pav.) Kosterm.  
*Licaria excelsa* Kosterm.  
*Nectandra cuspidata* Nees & Mart.  
*Nectandra lineata* (Kunth) Rohwer

#### LAURACEAE

*Nectandra ramonensis* Standl.  
*Nectandra turbacensis* (Kunth) Nees  
*Ocotea aurantiodora* (Ruiz & Pav.) Mez  
*Ocotea cernua* (Nees) Mez  
*Ocotea rubrinervis* Mez  
*Persea americana* Mill.  
*Laur* sp.1  
*Laur* sp.2

#### LECYTHIDACEAE

*Couratari guianensis* Aubl.  
*Eschweilera pittieri* R. Knuth  
*Gustavia superba* (Kunth) O. Berg.

#### LIMNOCHARITACEAE

*Limnocharis laforestii* Duchass. ex Griseb.

#### LOGANIACEAE

*Spigelia anthelmia* L.  
*Strychnos darienensis* Seem.

#### LORANTHACEAE

*Oryctanthus spicatus* (Jacq.) Eichler  
*Phthirusa pyrifolia* (Kunth) Eichler

#### LYTHRACEAE

*Cuphea carthagenensis* (Jacq.) J.F. Macbr.  
*Cuphea serpyllifolia* Kunth  
*Cuphea utriculosa* Koehne

MALPIGHIACEAE

*Bunchosia dwyeri* Cuatrec. & Croat  
*Byrsonima crassifolia* (L.) Kunth  
*Heteropterys macrostachya* A. Juss.  
*Stigmaphyllon ellipticum* (Kunth) A. Juss.  
*Tetrapteryx goudotiana* Triana & Planch.

MALVACEAE

*Malvaviscus arboreus* Cav.  
*Pavonia fruticosa* (Mill.) Fawc. & Rendle  
*Sida acuta* Burm. f.  
*Sida rhombifolia* L.  
*Talipariti tiliaceum* var. *pernambucense* (Arruda) Fryxell  
*Urena lobata* L.  
*Wissadula excelsior* (Cav.) C. Presl

MARANTACEAE

*Calathea inocephala* (Kuntze) H. Kenn. & D. Nicolson  
*Calathea lutea* (Aubl.) Schult.  
*Pleiostachya pruinosa* (W. Bull ex Regel) K. Schum.

MARCGRAVIACEAE

*Souroubea venosa* Schery

MELASTOMATACEAE

*Adelobotrys adscendens* (Sw.) Triana  
*Bellucia pentamera* Naudin  
*Clidemia capitellata* (Bonpl.) D. Don  
*Clidemia densiflora* (Standl.) Gleason  
*Clidemia dentata* D. Don.  
*Clidemia discolor* (Triana) Cogn.  
*Clidemia gracilis* Pittier  
*Conostegia cinnamomea* (Beurl.) Wurdack  
*Conostegia subcrustulata* (Beurl.) Triana  
*Henriettea succosa* (Aubl.) DC.  
*Henriettella cuneata* (Standl.) Gleason  
*Miconia argentea* (Sw.) DC.  
*Miconia impetiolearis* var. *pandurifolia* Naudin  
*Miconia lacera* (Bonpl.) Naudin  
*Miconia minutiflora* (Bonpl.) DC.  
*Miconia poeppigii* Triana  
*Miconia prasina* (Sw.) DC.  
*Miconia schlimii* Triana  
*Mouriri gleasoniana* Standl.  
*Mouriri myrtilloides* ssp. *parvifolia* (Benth.) Morley  
*Pterolepis trichotoma* (Rottb.) Cogn. in Mart.  
*Tibouchina bipenicillata* (Naudin) Cogn.  
*Tibouchina longifolia* Cogn.  
*Melas* sp. 1

MELIACEAE

*Carapa guianensis* Aubl.  
*Cedrela odorata* L.  
*Guarea grandifolia* DC.

*Guarea pterorhachis* Harms.  
*Trichilia pallida* Sw.  
*Trichilia tuberculata* (Triana & Planch.) C. DC.

#### MENISPERMACEAE

*Cissampelos tropaeolifolia* DC.

#### MONIMIACEAE

*Siparuna guianensis* Aubl.  
*Siparuna pauciflora* (Beurl.) A. DC.

#### MORACEAE

*Artocarpus attilis* (Parkinson) Fosberg  
*Brosimum alicastrum* ssp. *bolivarense* (Pittier) C.C. Berg  
*Castilla elastica* ssp. *costaricana* (Liebm.) C.C. Berg  
*Ficus citrifolia* Mill.  
*Ficus costaricana* (Liebm.) Miq.  
*Ficus insipida* Willd.  
*Ficus maxima* Mill.  
*Ficus obtusifolia* Kunth  
*Ficus yoponensis* Desv.  
*Ficus* sp.1  
*Ficus* sp.2  
*Ficus* sp.3  
*Maquira guianensis* ssp. *costaricana* (Standl.) C.C. Berg  
*Perebea guianensis* Aubl.  
*Sorocea affinis* Hemsl.  
*Trophis racemosa* (L.) Urb.  
*Mora* sp.1  
*Mora* sp.2  
*Mora* sp.3  
*Mora* sp.4  
*Mora* sp.5  
*Mora* sp.6  
*Mora* sp.7

#### MUSACEAE

*Musa x paradisiaca* L.

#### MYRISTICACEAE

*Virola elongata* (Benth.) Warb.  
*Virola koschnyi* Warb.  
*Virola sebifera* Aubl.

#### MYRSINACEAE

*Ardisia granatensis* Mez  
*Ardisia guianensis* (Aubl.) Mez  
*Ardisia revoluta* Kunth  
*Stylogyne turbacensis* ssp. *laevis* (Oerst.) Ricketson & Pipoly

#### MYRTACEAE

*Eugenia* sp.1  
*Eugenia* sp.2

*Myrcia splendens* (Sw.) DC.  
*Myrciaria floribunda* (H. West ex Willd.) O. Berg  
*Plinia povedae* P.E. Sánchez  
*Psidium guajava* L.  
*Syzygium jambos* (L.) Alston  
*Syzygium malaccense* (L.) Merr. & L.M. Perry  
*Myrt* sp.2  
*Myrt* sp.4  
*Myrt* sp.15  
*Myrt* sp.16  
*Myrt* sp.17

#### NYCTAGINACEAE

*Guapira costaricana* (Standl.) Woodson

#### OCHNACEAE

*Ouratea lucens* (Kunth) Engl.

#### OLACACEAE

*Heisteria concinna* Standl.

*Ximenia americana* L.

#### ONAGRACEAE

*Ludwigia octovalvis* (Jacq.) P.H. Raven

#### ORCHIDACEAE

*Bletia purpurea* (Lam.) DC.

*Brassavola acaulis* Lindl.

*Catasetum viridiflavum* Hook.

*Dichaea panamensis* Lindl.

*Epidendrum* sp.1

*Lockhartia micrantha* Rchb. f.

*Maxillaria crassifolia* (Lindl.) Rchb. f.

*Oncidium ampliatum* Lindl.

*Polystachya foliosa* (Lindl.) Rchb. f.

*Prosthechea fragrans* (Sw.) W.E. Higgins

*Scaphyglottis behrii* (Rchb. f.) Benth. & Hook. f. ex Hemsl.

*Scaphyglottis boliviensis* (Rolfe) B.R. Adams

*Sobralia decora* Bateman

*Sobralia fragrans* Lindl.

*Trigonidium egertonianum* Bateman ex Lindl.

*Vanilla pompona* Schiede

#### PASSIFLORACEAE

*Passiflora biflora* Lam.

*Passiflora pittieri* Mast.

*Passiflora platyloba* var. *williamsii* (Killip) A.H. Gentry

*Passiflora quadrangularis* L.

#### PHYTOLACACEAE

*Microtea debilis* Sw.

#### PICRAMNIACEAE

*Picramnia gracilis* Tul.

PICRAMNIACEAE

*Picramnia latifolia* Tul.

PIPERACEAE

*Peperomia angustata* Kunth

*Peperomia mameiana* C. DC. ex A. Schroed.

*Peperomia pellucida* (L.) Kunth

*Peperomia rotundifolia* (L.) Kunth

*Piper aduncum* L.

*Piper aequale* Vahl

*Piper arboreum* Aubl.

*Piper colonense* C. DC.

*Piper darienense* C. DC.

*Piper grande* Vahl

*Piper marginatum* Jacq.

*Piper peltatum* L.

*Piper pinoganense* Trel.

*Piper pseudofulgineum* C. DC.

*Piper sancti-felicitis* Trel.

*Piper schiedeianum* Steud.

POACEAE

*Aristida capillacea* Lam.

*Arundinella deppeana* Nees ex Steud.

*Bambusa vulgaris* Schrad. ex J.C. Wendl.

*Chusquea?* sp. 1

*Echinochloa polystachya* (Kunth) Hitchc. var. *polystachya*

*Gynerium sagittatum* (Aubl.) P. Beauv.

*Homolepis aturensis* (Kunth) Chase

*Hyparrhenia rufa* (Nees) Stapf

*Ichnanthus pallens* (Sw.) Munro ex Benth.

*Ichnanthus tenuis* (J. Presl) Hitchc. & Chase

*Ischaemum timorense* Kunth

*Lasiacis nigra* Davidse

*Lasiacis sorghoidea* (Desv.) Hitchc. & Chase

*Oplismenus hirtellus* (L.) P. Beauv.

*Panicum pilosum* Sw. var. *pilosum*

*Paspalum conjugatum* P.J. Bergius

*Paspalum decumbens* Sw.

*Paspalum saccharoides* Nees ex Trin.

*Paspalum virgatum* L.

PODOSTEMONACEAE

*Marathrum* sp.

*Tristicha trifaria* (Bory ex Willd.) Spreng.

POLYGALACEAE

*Polygala* sp. 1

*Securidaca diversifolia* (L.) S.F. Blake

POLYGONACEAE

*Coccoloba coronata* Jacq.

*Coccoloba padiformis* Meisn.

*Triplaris cumingiana* Fisch. & C.A. Mey. ex C.A. Mey.

PROTEACEAE

*Roupala montana* Aubl.

RHAMNACEAE

*Gouania lupuloides* (L.) Urb.

RHIZOPHORACEAE

*Cassipourea elliptica* (Sw.) Poir.

*Rhizophora mangle* L.

RUBIACEAE

*Alibertia edulis* (Rich.) A. Rich.

*Amaioua corymbosa* Kunth

*Calycophyllum candidissimum* (Vahl) DC.

*Chimarrhis parviflora* Standl.

*Chiococca alba* (L.) Hitchc.

*Chiococca belizensis* Lundell

*Condaminea corymbosa* (Ruiz & Pav.) DC.

*Coutarea hexandra* (Jacq.) K. Schum.

*Faramea occidentalis* (L.) A. Rich.

*Genipa americana* L.

*Gonzalagunia ovatifolia* (Donn. Sm.) B.L. Rob.

*Gonzalagunia panamensis* (Cav.) K. Schum.

*Guettarda foliacea* Standl.

*Hamelia axillaris* Sw.

*Hamelia magnifolia* Wernham

*Hamelia patens* Jacq.

*Isertia haenkeana* DC.

*Ixora floribunda* (A. Rich.) Griseb.

*Machaonia martinicensis* (DC.) Standl.

*Macrocnemum roseum* (Ruiz & Pav.) Wedd.

*Manettia reclinata* L.

*Palicourea guianensis* Aubl.

*Palicourea triphylla* DC.

*Posoqueria latifolia* (Rudge) Roem. & Schult.

*Psychotria acuminata* Benth.

*Psychotria brachiata* Sw.

*Psychotria cyanococca* Seem.

*Psychotria deflexa* DC.

*Psychotria emetica* L. f.

*Psychotria gracilentia* Müll. Arg.

*Psychotria hoffmannseggiana* (Willd. ex Roem. & Schult.) Müll. Arg.

*Psychotria horizontalis* Sw.

*Psychotria poeppigiana* Müll. Arg.

*Psychotria pubescens* Sw.

*Psychotria racemosa* Rich.

*Randia armata* (Sw.) DC.

*Richardia scabra* L.

*Rondeletia hameliifolia* Dwyer & M.V. Hayden

*Sabicea panamensis* Wernham

*Sabicea villosa* Willd. ex Roem. & Schult.

*Spermacoce* sp.

*Warszewiczia coccinea* (Vahl) Klotzsch

RUTACEAE

*Citrus x aurantium* L.  
*Peltostigma guatemalense* (Standl. & Steyerl.) Gereau  
*Zanthoxylum setulosum* P. Wilson

#### SAPINDACEAE

*Cupania latifolia* Kunth  
*Paullinia bracteosa* Radlk.  
*Paullinia cururu* L.  
*Paullinia fuscescens* var. *glabrata* Croat  
*Paullinia turbacensis* Kunth  
*Serjania atrolineata* C. Wright  
*Serjania grandis* Seem.  
*Serjania mexicana* (L.) Willd.  
*Serjania rhombea* Radlk.  
*Talisia princeps* Oliv.

#### SAPOTACEAE

*Chrysophyllum cainito* L.  
*Manilkara staminodella* Gilly  
*Pouteria fossicola* Cronquist  
*Pouteria foveolata* T.D. Penn.  
*Pouteria glomerata* (Miq.) Radlk.  
*Pouteria* sp.1  
*Pouteria* sp.2  
*Sapo* sp.1

#### SCROPHULARIACEAE

*Lindernia crustacea* (L.) F. Muell.  
*Lindernia diffusa* (L.) Wettst.  
*Mecardonia procumbens* (Mill.) Small  
*Russelia sarmentosa* Jacq.  
*Scoparia dulcis* L.  
*Stemodia angulata* Oerst.  
*Stemodia verticillata* (Mill.) Hassl.

#### SIMAROUBACEAE

*Simaba cedron* Planch.  
*Simarouba amara* Aubl.

#### SMILACACEAE

*Smilax domingensis* Willd.  
*Smilax spinosa* Mill.

#### SOLANACEAE

*Cestrum fragile* Francey  
*Physalis angulata* L.  
*Solanum argenteum* Dunal ex Poir.  
*Solanum aturense* Dunal  
*Solanum jamaicense* Mill.  
*Solanum rudepannum* Dunal

#### STAPHYLEACEAE

*Turpinia occidentalis* ssp. *breviflora* Croat

#### STERCULIACEAE



*Byttneria aculeata* (Jacq.) Jacq.  
*Guazuma ulmifolia* Lam.  
*Sterculia apetala* (Jacq.) H. Karst.  
*Theobroma angustifolium* Sessé & Moç. ex DC.  
*Theobroma cacao* L.

#### THEACEAE

*Pelliciera rhizophorae* Triana & Planch.

#### TILIACEAE

*Apeiba tibourbou* Aubl.  
*Heliocarpus americanus* L.  
*Luehea seemannii* Triana & Planch.  
*Trichospermum galeottii* (Turcz.) Kosterm.  
*Triumfetta lappula* L.

#### TURNERACEAE

*Erblichia odorata* Seem.

#### ULMACEAE

*Celtis iguanaea* (Jacq.) Sarg.  
*Trema micrantha* (L.) Blume

#### URTICACEAE

*Myriocarpa longipes* Liebm.  
*Pilea* sp.1  
*Pilea* sp.2

#### VERBENACEAE

*Avicennia germinans* (L.) L.  
*Callicarpa acuminata* Kunth  
*Clerodendron bungei* Steud.  
*Cornutia microcalycina* Pav. ex Moldenke  
*Gmelina arborea* Roxb. ex Sm.  
*Lantana camara* L.  
*Lantana trifolia* L.  
*Lippia alba* (Mill.) N.E. Br. ex Britton & P. Wilson  
*Lippia americana* L.  
*Lippia oxyphyllaria* (Donn. Sm.) Standl.  
*Petrea volubilis* L.  
*Priva lappulacea* (L.) Pers.  
*Stachytarpheta cayennensis* (Rich.) Vahl  
*Tectona grandis* L.  
*Vitex cooperi* Standl.  
*Vitex cymosa* Bertero ex Spreng.

#### VIOLACEAE

*Gloeospermum eneidense* Hekking  
*Rinorea squamata* S.F. Blake

#### VISCACEAE

*Phoradendron piperoides* (Kunth) Trel.

#### VITACEAE

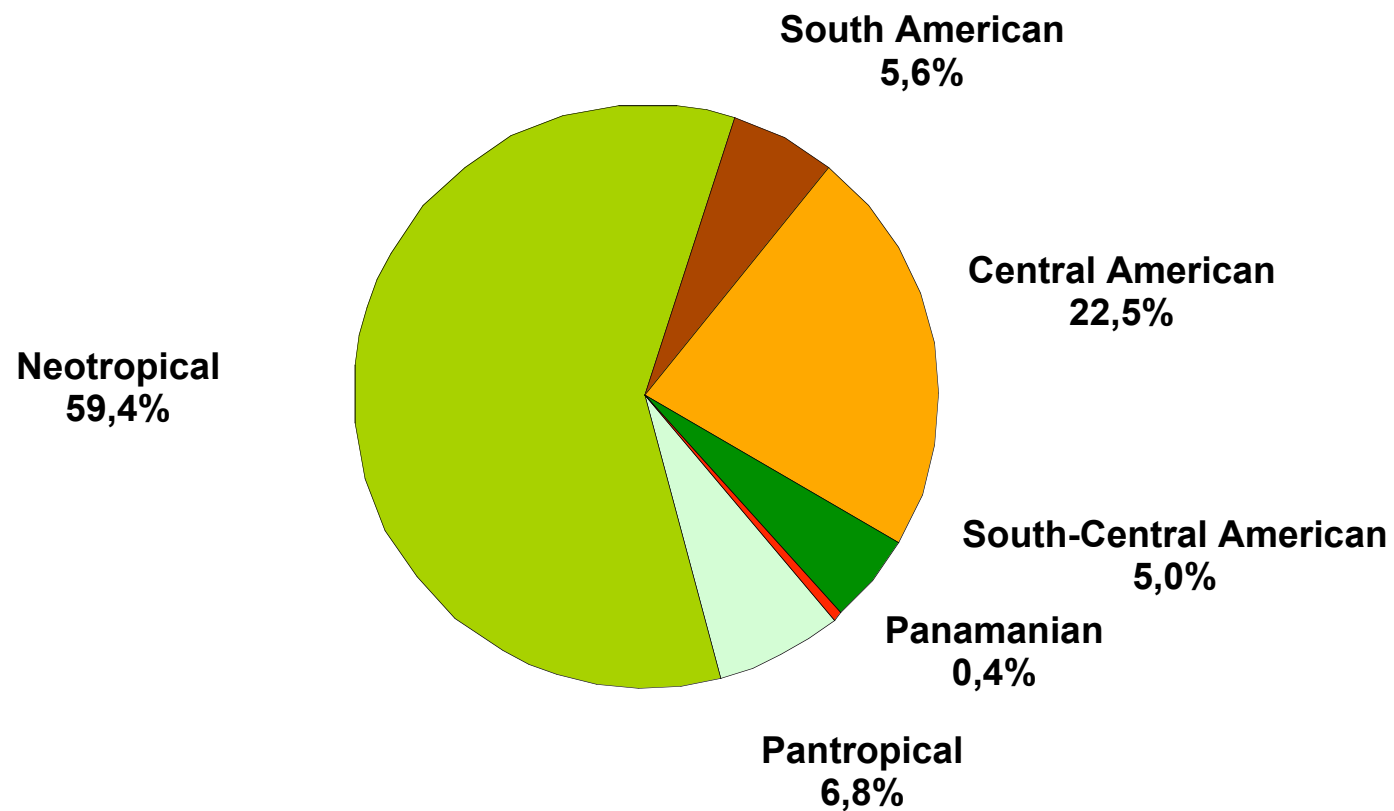
*Cissus erosa* Rich.

*Cissus fuliginea* Kunth  
*Cissus microcarpa* Vahl

VOCHYSIACEAE  
*Vochysia ferruginea* Mart.

ZINGIBERACEAE  
*Curcuma* sp.1  
*Renealmia alpinia* (Rottb.) Maas

**Fig. 1. Geographical elements of the Vascular Flora in the Bahía Honda region**



## LIST OF PICTURES OF VASCULAR PLANT SPECIES FROM BAHÍA HONDA

- Fig. 1. *Aphelandra scabra* (Acanthaceae)
- Fig. 2. *Blechnum pyramidatum* (Acanthaceae)
- Fig. 3. *Hygrophyla costata* (Acanthaceae)
- Fig. 4. *Barleria oenotheroides* (Acanthaceae)
- Fig. 5. *Justicia isthmensis* (Acanthaceae)
- Fig. 6. *Lepidagathis alopecuroidea* (Acanthaceae)
- Fig. 7. *Mendoncia retusa* (Acanthaceae)
- Fig. 8A. *Ruellia macrophylla* (Acanthaceae)
- Fig. 8B. *Ruellia macrophylla* (Acanthaceae)
- Fig. 9. *Ruellia tubiflora* (Acanthaceae)
- Fig. 10. *Cyathula prostrata* (Amaranthaceae)
- Fig. 11. *Iresine diffusa* (Amaranthaceae)
- Fig. 12A. *Anacardium excelsum* (Anacardiaceae)
- Fig. 12B. *Anacardium excelsum* (Anacardiaceae)
- Fig. 13A. *Anacardium occidentale* (Anacardiaceae)
- Fig. 13B. *Anacardium occidentale* (Anacardiaceae)
- Fig. 14. *Mangifera indica* (Anacardiaceae)
- Fig. 15. *Spondias mombin* (Anacardiaceae)
- Fig. 16A. *Guatteria recurvisepala* (Annonaceae)
- Fig. 16B. *Guatteria recurvisepala* (Annonaceae)
- Fig. 17A. *Xylopia frutescens* (Annonaceae)
- Fig. 17B. *Xylopia frutescens* (Annonaceae)
- Fig. 18. *Mandevilla hirsuta* (Apocynaceae)
- Fig. 19. *Mesechites trifida* (Apocynaceae)
- Fig. 20. *Peltastes colombianus* (Apocynaceae)
- Fig. 21. *Plumeria rubra* (Apocynaceae)
- Fig. 22. *Plumeria rubra* (Apocynaceae)
- Fig. 23. *Prestonia quinquadangularis* (Apocynaceae)
- Fig. 24. *Rhabdadenia biflora* (Apocynaceae)
- Fig. 25A. *Stemmadenia grandiflora* (Apocynaceae)
- Fig. 25B. *Stemmadenia grandiflora* (Apocynaceae)
- Fig. 25C. *Stemmadenia grandiflora* (Apocynaceae)
- Fig. 26A. *Thevetia ahouai* (Apocynaceae)
- Fig. 26B. *Thevetia ahouai* (Apocynaceae)
- Fig. 27. (Araceae)
- Fig. 28. (Araceae)
- Fig. 29. (Araceae)
- Fig. 30. *Dieffenbachia* sp. (Araceae)