Madeira - The Floating Garden

Naturetrek Tour Report

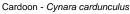
3 - 8 June 2014





Botanic Garden Broom - Cytisus scoparius - Pico Ruivo







Evening meal

Report & images compiled by Martin Beaton



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Day 1 Tuesday 3rd June

Weather: Funchal; warm and sunny spells with some cloud cover

We met at Gatwick Airport for an early (6.30a.m.) flight to Madeira. On arrival at Funchal we had a 30 minute transfer to our hotel, the Residential Pina where, after settling into our rooms, we had a light lunch. With the afternoon ahead we briefly discussed options for exploring Funchal.

The centre of Funchal is readily accessible from Residential Pina and an enjoyable place to explore and appreciate the different planted street trees which include, in particular, Jacaranda (Jacaranda mimosifolia), Pride of Bolivia (Tipuana tipu), Yellow Trumpet tree (Markhamia platycalyx), African Tulip Tree (Spathodea campanulata), Coral Tree (Erythrina abyssinica), Brazilian Kapok Tree (Celba speciosa), Queensland Kauri (Agathis brownie) and the Flame Tree (Brachychiton acerifolium).

Whilst there are a large number of gardens in Funchal the focus for our initial tour was the Municipal Garden; an elderly, elegant and remarkable little garden. Designed by Edouard Andre and built in 1880 the original bandstand and rails were removed around 1935 and the garden subsequently developed a more intimate link with the small square that sits within.

The garden contains a number of large trees; Beautiful Shade (*Aganthus orientalis*), Ombú (*Phytolacca dioica*) and *Celba spp*. In addition there are some new plantings including the Sausage Tree, (*Kigelia Africana*) with its strange hanging fruit.

In addition, local gardens contain a variety of cultivated plants including Tropical Hydrangea Tree (Dombeya wallichii), Tricoloured Frangipani (Plumeria tricolour), Yellow Angles Trumpet (Brugmansia candida), Chinese Hibiscus (Hibiscus rosa sinensis), and Bougainvillea (Bougainvillea glabra).

Tonight we ate at the excellent Restaurante dos Combatentes on the edge of the Municipal garden where a number of people enjoyed Funchal's 'signature dish', the local Scabbard Fish.

Day 2

Wednesday 4th June

Weather: Cool, cloudy with light rain in the mountains around Ribeiro Frio

Our focus today was to explore the Laurel Forests around Ribeiro Frio and to familiarize ourselves with the principle forest trees and plants of this important habitat which has been designated a World Heritage site.

From our hotel in Funchal we drove north ascending through planted forests of Eucalipus and then Douglas Fir, over the central ridge at Paso de Poiso and down to Ribeiro Frio. Along the roadsides down to Ribeiro Frio we saw examples of the Madeiran national flower Pride of Madeira* (*Echium candicans*), conspicuous flowers of Argyranthemum* (*Argyranthemum pinnatifolium*) and the Madeira Marsh Orchid* (*Dactylorhiza foliosa*).

At Ribeiro Frio we stopped initially to look at a small garden of planted woodland opposite the trout farm. This is an important site because it was planted in 1960 by the Regional Forestry Service when the construction of new roads in the 1950's threatened pristine forest habitats. The shrubby Yellow Foxglove* (*Isoplexis sceptrum*) was probably saved from extinction by this little garden. Our visit also provide an opportunity to familiarise ourselves with a number of the common trees of the Laurel Forest. Laurels that occur within the forest are notoriously difficult to identify when not in flower, along with other notable indigenous plants and rarities such as Madeira Holly* (Ilex perado) and Appolonia* (*Appollonias barbujana*).

After an enjoyable walk around the garden we began our walk along Levada Balcoes. The levadas provide both a level walk and an excellent route from which to observe the Laurel Forest. The principle tree species were Azores Laurel (Laurus azorica) with its parasitic Madeiran Laurel Fungus (Laurobasidium laurii), Fetied Laural (Ocpotea foetens) and occasionally Lily of the Valley Tree (Clethera arborea). The smaller tree and shrub species include Bessom Heath (Erica scoparia), Maderian Bilberry (Vaccinuim padifolium) and Tree Heather (Erica arborea). The invasion of the forest by non native species included English Oak (Quercus robur) and Scycamore (Acer pseudoplantanus). Along the edges of the levada we found Anemone-leaved Crane's-bill (Geranium palmatum), Madeiran Stonecrop* (Aichyrison divaricatum) and the ubiquitous endemic Madeiran Moneywort* (Sibthorpia peregrine). We also found Yellow-flowered Strawberry (Dunchensea indica) along with our first views of Black Parsley (Melanoselinum decipens).

We walked the short distance to the lookout point where had excellent views of the landscape of the Ribeira da Metade beyond. A Bystropogen (Bystropogen maderensis) and a St. John's Wort (Hypericum canariensis) were seen in the rock face adjacent to the view point and Madeiran Chaffinches (Fringilla coelebs maderensis) perched close by in search of food.

We returned to our bus and made a short drive up to a picnic area on Pico do Arieiro (1818 metres) where, despite the continuing cloudy weather, we had lunch below Maritime Pine (*Pinus pinaster*).

After lunch we returned to Ribeiro Frio to walk Levada Portela, to continue our exploration of the Laurel Forests. In addition to the Laurel species already encountered we found Shrubby Sow Thistle* (Sonchus fruticosus), Butchers Broom (Ruscus strepophyllus) and Madeira Elder* (Sambucus lanceolata)

As a result of the cool weather there was no butterfly activity and few birds beyond Madeiran Chaffich were seen. Although we heard Madeiran Firecrests they proved elusive. Tonight we ate at Espaco Funchal

Day 3

Thursday 5th June

Weather: Cloudy and wet on the coast at first. Mainly clear and warm above the cloud base on the mountain.

Our focus today was to see Madeira's mountain habitat on Pico Ruivo; at 1862m Madeira's highest peak. The mountains of Madeira are not high when compared to other mountain peaks but they do rise spectacularly directly from sea level. Tree Heather (Erica arbora) and Besom heath (Erica scoparia) replace the Laurel forest at altitude and become scattered bushes within an open vegetation. The hillsides were also yellow from the Broom (Cystisus scoparius).

Our walk into this open mountain vegetation began from the car park 270 m below the summit and approx 2 km from the peak. As we made our assent up Pico Ruivo the cloud began to clear providing us with a spectacular sun drenched mountain landscape emerging directly from the cloud.

Whilst looking at our first Berthelot's Pipit we also found Slender Bird's-foot Trefoil (Lotus angustissimus) and Common Bird's-foot (Ornithopilus perpusillus). Basil (Clinopodium vulgare) was also seen flowering

We found several non flowering specimens of Madeiran Hawkweed* (*Tolpis macrorhiza*) growing in the edge of the path. Andryala (*Andryala glandulosa spp varia*) was seen sporadically along the route and Large-leaved Buttercup (*Ranunculus cortusifolius* ssp. *minor*) was seen growing in a damp cliff face.

With the Refugio in sight we also discovered Willow-leafed Carline Thistle (Carlina salicifolia) and saw our first patches of Mountain Thyme (Thymus caespititus), Yellow Odentites (Odentites holliana) and Rock Cress (Arabis alpine spp caucasica).

The hut provided a welcome rest and an opportunity to eat our lunch before completing the final climb to the peak. The vegetation on the south face of Pico Ruivo had been damaged by fire but the open vegetation included a white flowering Thistle* (Carduus squarrosus) which had undoubtedly blown in from lower altitudes. At the summit we saw Madeiran Yellow Violet* (*Viola paradoxa*) growing on a ledge alongside Mealy Stone Crop* (*Sedum farinosum*) and on walking out to the north eastern edge of the peak we also found Maderian Heather* (*Erica maderensis*)

We made our return trip via Porta da Cruz and looked around one of the few remaining sugar cane production mills and distilleries on the island. The Companhia dos Enghenos do Norte produces a small amount of Aguardente, a rum-like sprit used in the traditional Poncha liqueur.

This visit was followed by a short walk around the coastal headland where we saw Madeiran Birds-foot Trefoil (Lotus glaucus), Rock Samphire (Crithmum maritimum) and Buck's-horn Plantain (Plantago coronopus). In addition we had good views of a Canary adjacent to the mill and a finally, after a short walk around the headland, a coffee stop.

This evening we ate at Restaurante dos Combatentes

Day 4 Friday 6th June

Weather: Cloudy and windy, becoming warmer in the afternoon.

Today we drove east to the peninsular of Ponta de Sao Louenco. The landscape of Sao Louenco is a low undulating terrain, dry and exposed, more like the outlying Desertas Islands than of other parts of Madeira. The original coastal vegetation, probably a low bushland, has become degraded to a heath like grassland through human occupation but contains a range of plants not easily seen elsewhere on Madeira. There were also excellent views of lava flows and dyke swarms.

We split into groups, some taking the opportunity to have a long walk out to the Information Centre towards the end of the peninsular.

The peninsular already appeared very dry and the grassland had turned brown. Along the path we saw small patches of Aizoon (Aizoon canariensis) hugging the ground and specimens of Cardoon* (Cynara cardunculus var ferocissima) and Boar Thistle (Galactites tomentosa) along the path edges along with Purple Viper's Bugloss (Echium plantagineum).

Walking along the track to the first viewpoint we saw the yellow fruit of the Apple of Sodom (Solanum linnaeanum), the yellow flowering Spotted Golden Thistle (Scolymus maculates) and nearby the lighter yellow flowers of a Safflower (Carthamus lanatus).

On our approach to the first viewpoint we found Sea Campion (Siline uniflora) and the Andryala* (Andryala glandulosa spp glanulosa). Beyond the first viewpoint we discovered an Ice Plant (Mesesmbryanthemum nodiflorum) and Common Ice Plant (Mesesmbryanthemum cristil). We also saw found Everlasting (Helichrysum devium), Helechrysum obconicum and Madeira Sea Stock *(Matthiola maderensis).

Returning from our linear walk to the first viewing point a number of us walked down the valley to the stony beach where we found the only location on Madeira for Castilian Gorse (Launaea arborescens).

We moved on to Garajau where the huge statue of Christo Rei (erected in 1927) stands with outstretched arms on a headland 200 metres above the sea welcoming visitors to the island. During our approach to Garajau we saw Golden Musschia* (Musschia aurea) growing in a wall.

This location provided an opportunity to see some of the surviving flora of the south coast at close hand including Fish Stunning Spurge* (Euphorbia piscatoria), Globe Flower* (Globularia salicina), Disk Houseleek* (Aeonium glandulosum), Viscid Houseleek* (Aeonium glutinosum) and Burnt Sow Thistle* (Soncus ustulatius subsp maderensis). We also saw a number of introduced plants including Prickly pear (Opuntia tuna) and Shrub Tobacco (Nicotiana glauca).

This evening we ate an enjoyable but plain meal at Restaurante Velhinho in the old town.

Day 5

Saturday 7th June

Weather: Cloudy, becoming brighter and warm 21°C

This was a free day and everyone took the opportunity to visit one or more of the very well known and accessible gardens; the Botanic Garden, Monte Palace Garden or the Blandy Garden. The starting point for some was a horse ride.

The Botanic Garden was created in 1960 from the older garden of Quinta Reid which was established as a garden in 1881. It is a lovely garden and as well as a huge range of garden plants from around the world it gives the opportunity to see some of the endemic plant species which one might not managed to find in a native situation such as Madeiran Geranium* (Geranium maderensis). We also found Perez's Frogs in the water features, Short-tailed Blue butterflies occurring on hedges and European Speckled Wood butterflies in the shaded walkways of the woodland garden.

Monte Palace Garden was established in its current form in the 1980's by Jose Berarado. It is designed within a valley around a Japanese theme and lies on the site of an older garden from which the older trees survive. A water course descends through the garden in a range of waterfalls and ponds. The strong architectural design has been softened by the maturing planting. The garden contains a wide variety of garden plants from around the world along with plants from the laurel forest.

The Blandy Garden, Quinta do Palheiro Ferreiro has a history stretching back 200 years. The property was founded in 1791 and acquired by John Blandy in 1885. The Blandy family made numerous changes to the property however it was Mildred Blandy in the early 1900's who made the garden one of the most celebrated botanical collections in the world.

We ate at Restaurante dos Combatentes

Day 6 Sunday 8th June

Weather: Cloudy and overcast. Cloud clearing at times around Encumeada

Today we explored a number of different habitats within the central highlands of Madeira. Our original route onto the plateau of Paul da Serra via Encumeada was cut off by a landslide so we drove initially via Canhas then directly to Rabacal, where we walked down the track to the government office. The walk passed through a natural landscape dominated by Tree Heather (*Erica arborea*) and Bessom Heath (*Erica scoparia*), which replaces the Laural forests at altitude.

From the government building we walked the shorter route along the Levada do Risco to the waterfall. The warm morning sun brought numerous butterflies including both Speckled Wood and Maderian Speckled Wood on the levada glades. Along the Levada we found several spikes of Rock Orchid (Orchis scopulorum) and Rockcress (Arabis alpine subsp. caucasica). As we approached the end of the gorge we caught sight of a Trocaz Pigeon, a bird endemic to Madeira and intimately linked to the Laurel forest where it feeds on and spreads the seed of the principle trees.

We retraced our route and had our picnic at the top of the track where the early sun had finally given way to a rather misty landscape. After lunch we travelled across the high plan of Paul de Serra and then north towards Riberia and the coast road stopping enroute at a number of viewing points to get some spectacular views of the north coast.

Tonight by popular demand we ate at O Jango in the old town.

Day 7 Monday 9th June

Weather: Bright and sunny.

Today we looked at the habitats along the north coast of the island which differs from the south because of the significantly greater rainfall. Our first stop was in search of the last native Dragon Tree (*Dracena draco*) on the island at Ribeira Brava. The young specimen, a tree of about 20 years old, is now the only natural relic of trees which once covered much of the south coast. Fortunately Dragon Trees are now being bred and replanted to retain the native habitat.

We purchased our picnic lunch at Ribeiro Brava before heading north through Serra de Agua and the long (3km) road tunnel under Pico do Cera. After Sao Vicente, we travelled west and stopped to walk a section of the now closed and redundant coast road where we encountered wonderful examples of Disc Houseleek* (Aeonium glandulosum), Rock Samphire* (Crithmum maritimum), White Everlasting* (Helichrysum melaleucum), a Hawkweed* (Tolopsis succulenta), Brookweed (Samolus valerandi) and Bastard Hare's Ear (Phyllis noble). We also found the uncommon Kidney-leafed Fern* (Adinatum reniforme).

After our coastal walk we visited Chao de Ribeira, south of Seixal, and briefly explored the Laurel forest in this location where we found examples of Maderian Mahogany* (Persea indica) and the Lily of the Valley Tree* (Clethra arborea). In cultivated ground before the forest we came across the Tree Tomato (Cyphomandra betacea).

Our picnic was taken adjacent to the river. After lunch we found the Maderian Saxifrage* (Saxifraga madredensis) growing in a cliff face on the opposite shore. We continued west for a few kilometres to Porto Moniz where several people enjoyed swimming in the spectacular natural rock pools on the seafront.

Our return was via the spectacular sea cliff of Cabo Gerao which, at 580 metres high, is the highest sea cliff in Europe.

We ate an excellent meal at Restaurante dos Combatentes

Day 8 Tuesday 10th June

Weather: Sunny with some cloud.

We were picked up by Paul for our return journey to the airport to catch our 12.15p.m. plane having seen a range of the natural and man-made habitats of the island.

Ribeiro Frio

Encumeada Ribeiro Frio - Portela

Species List

Cupressaceae

Cryptomeria japonica

Juniperus phoenicea

Cupressus macrocarpa

Plants

Scientific name Common name Location **PTERIDOPHYTES FERNS & ALLIES** Selaginellaceae Lesser Clubmoss Family Ribeiro Frio - Balcoes Selaginella denticulate A Clubmoss Selaginella kraussiana Krauss's Spikemoss Ribeiro Frio - Portela Maidenhair Fern Family Adiantaceae Adiantum capillus-veneris Maidenhair Fern Old Coast road Anogramma leptophylla Ribeiro Frio - Portela Jersey Fern Adiantum reniforme Old Coast road **Spleenwort Family** Aspleniaceae Asplenium monanthes A Spleenwort Ribeiro Frio - Portela Asplenium onopteris Blechnaceae **Hard Fern Family** Ribeiro Frio - Balcoes Blechnum spicant Hard Fern Chain Fern Ribeiro Frio - Balcoes Woodwardia radicans Davalliaceae Hare's-foot Fern Family Davallia canariensis Hare's-foot Fern Ribeiro Frio - Portela **Bracken Family** Dennstaedtiaceae Pteridium aquilinum Bracken Throughout **Buckler Fern Family** Dryopteridaceae Dryopteris affinis subsp. Affinis Scaly Male Fern Ribeiro Frio - Balcoes Soft Shield fern Ribeiro Frio - Balcoes Polystichum setiferum Filmy Fern Family Hymenophyllaceae Ribeiro Frio - Portela Hymenophyllum tunbrigense Tunbridge Filmy Fern Polypodiaceae **Polypody Family** Polypodium macaronesicum Macaronesian Polypody Ribeiro Frio - Balcoes Ribbon Fern Family Pteridaceae Pteris vittata Ladder Brake **Funchal** Thelypteridaceae Stegnogramma pozoi Ribeiro Frio - Balcoes Woodsiaceae Lady Fern Family Athyrium filix-femina Ribeiro Frio - Portela Lady Fern PINOPSIDA (GYMNOSPERMS) **CONIFERS**

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Juniper Family

Japanese Red Cedar

Phoenicean Juniper

Monterey Cypress

Pico Ariero

Scientific name Common name Location

PinaceaePine FamilyCedrus atlanticaAtlas CedarPinus pinasterMaritime Pine

Pinus pineaStone or Umbrella PineOccasional - PlantedPinus halapensisAleppo PineRoad to So LaurencoPseudotsuga menziesiiDouglas FirRoad to Ribeiro Frio

MAGNOLIOPSIDA (ANGIOSPERMS) FLOWERING PLANTS

Magnoliidae (Dicotyledons)

Acanthaceae Bear's-breech Family

Acanthus mollis Bear's-breech Roadside - Funchal

Aceraceae Maple Family

Acer pseudoplatanus Sycamore Ribeiro Frio

Aizoaceae Dewplant Family

Aizoon canariensisAizoonPonta de Sao LourenceMesembryanthemum nodiflorumAn Ice-plantPonta de Sao LourenceMesembryanthemum crystallinumCommon Ice-plantPonta de Sao Lourence

Amaranthaceae Pigweed Family

Achyranthes aspera - Pt Garajani

Apiaceae Carrot Family

Ammi majus False Bishop's Weed So Laurenco Apium nodiflorum **Fools Water Cress** West of Sao Vicente Brasica nigra Black Mustard Roadside Brassica oleracea acephala Portugese Cabbage Cultivated Foeniculum vulgare Fennel Pt Garajani Ribeiro Frio - Balcoes Melanoselinum decipiens* Black Parsley

Crithmum maritimumRock SamphirePorto da CruzOenanthe divaricata*Madeira Water DropwortWest of Sao Vicente

Aquifoliaceae Holly Family

Ilex perado subsp. Perado Madeira Holly Ribeiro Frio

Araceae

Colocasia esculenta Green Taro West of Sao Vicente

Araliaceae Ivy Family

Hedera helix subsp. canariensis Ivy Ribeiro Frio

Asteraceae Daisy Family

Ageratina adenophoraWhite EupatoriumWest of Sao VicenteAndryala glandulosa subsp. glandulosaAndryalaPonta de Sao Lourence

Andryala glandulosa subsp. varia Andryala Pico Ruivo

Andryala crithmifolia
Anthemis cotula
Roadsides

 Argyranthemum pinnatifidum ssp.pinnatifidum*
 Argyranthemum
 Ribeiro Frio

 Argyranthemum pinnatifidum ssp.succulentum*
 Mandon's Chrysanthemum
 Ponta de Sao Lourence

 Ridens pilosa var minor
 A Bur marigald
 Pondoide Monti Palese

Bidens pilosa var.minorA Bur-marigoldRoadside - Monti PalaceCalendula arvensisField MarigoldPonta de Sao Lourence

Sambucus lanceolata*

Scientific name	Common name	Location
Carduus sqarrosus	A Thistle	Pico Ruivo
Carlina salicifolia*	Willow-leaved Carline Thistle	Pico Ruivo
Carthamus lanata	A Safflower	Ponta de Sao Lourence
Cichorum endivia divaricatum	Chicory	Ponta de Sao Lourence
Cynara cardunculus var ferocissima	Cardoon	Ponta de Sao Lourence
Delairea odorata	German Ivy	West of Sao Vicente
Erigeron karvinskianus	Mexican Fleabane	Ribeiro Frio
Filago minima	Small Cudweed	Pico Ruivo
Galactites tomentosa	Galactites	Ponta de Sao Lourence
Galinsoga parviflora	Gallant Soldier	Roadside - Funchal
Helichrysum devium*	Everlasting	Ponta de Sao Lourence
Helichrysum melaleucum*	White Everlasting	Ribeiro Frio
Helichrysum obconicum*	Everlasting	Ponta de Sao Lourence
Hypochaeris glabra	Smooth Cat's-ear	Pico Ruivo
Hypochaeris radiate	Rough cat's-ear	Ponta de Sao Lourence
Launaea arborescens		Ponta de Sao Lourence
Lapsana communis	Nipplewort	Roadside
Pericaulis aurita*	Madeira Groundsel	Ribeiro Frio
Scolymus maculates	Spotted Golden Thistle	Ponta de Sao Lourence
Senecio vulgaris	Groundsel	Funchal
Sonchus fruticosus*	Shrubby Sow Thistle	Ribeiro Frio
Sonchus oleraceus	Smooth Sow Thistle	Funchal
Sonchus pinnatus*	A Sow Thistle	Slopes above Funchal
Sonchus ustulatus subsp.maderensis*	Burnt Sow Thistle	Cancela Garajau
Sonchus ustulatus subsp ustulatus*	Burnt Sow Thistle	West of Sao Vicente
Tolpis macrorhiza*	Madeira Hawkweed	Pico Ruivo
Tolpis succulenta*	Hawkweed	Ponta de Sao Lourence
Boraginaceae	Forget-me-not Family	
Echium plantagineum	Purple Viper's Bugloss	Ponta de Sao Lourence
Echium candicans*	Pride of Madeira	Ribeiro Frio
Echium nervosum*	Small Pride of Madeira	Ponta de Sao Lourence
Myosotis secunda	Creeping Forget-me-not	Pico Arevo
Brassicaceae	Cabbage Family	
Arabis alpina subsp.caucasica	Rockcress	Rabbacal
Eruca sativa	Rocket	
Matthiola maderensis*	Madeira Sea-stock	Ponta do Sao Lourenco
Rapistrum rugosum subsp. orientale	Bastard Cabbage	Ponta de Sao Lourence
Sinapidendron gymnocalyx*	Naked-calyx Rock-cress	West of Sao Vicente
Teesdalia nudicaulis	Shepherd's Cress	Pico Ruivo
Cactaceae	Cactus Family	
Opuntia tuna	Elephant-ear Prickly Pear	Throughout
Campanulaceae	Bellflower Family	
Musschia wollastonii*	Wollaston's Musschia	Ribero Frio
Mussichia aurea	Golden Musschia	Wall nr Cancela
Caprifoliaceae	Honeysuckle Family	
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Madeiran Elder

Ribeiro Frio - Portela

Scientific name Common name Location

Caryophyllaceae

Cerastium fontanum Cerastium glomeratum

Silene uniflora

Chenopodiaceae

Suaeda vera

Cistaceae

Cistus psilosepalus

Clethraceae

Clethra arborea*

Clusiaceae

Hypericum canariensis* Hypericum grandiflorum* Hypericum humifusum Hypericum perforatum

Convolvulaceae

Convolvulus arvensis Convolvulus althaeoides Ipomoea purpurea

Crassulaceae

Aeonium glandulosum*
Aeonium glutinosum*
Aichryson divaricatum*
Aichryson villosum*
Sedum brissemoreti*
Sedum farinosum*
Umbilicus rupestris

Ericaceae

Erica maderensis* Erica arborea Erica scorparia subsp. maderinicola Rhododendron ponticum

Euphorbiaceae

Ricinus communis Euphorbia mellifera* Euphorbia piscatoria* Euphorbia peplus

Vaccinium padifolium

Fabaceae

4

Bitumaria bituminosa Cytisus scorparius Genista tenera* Lotus glaucus* **Pink Family**

Common Mouse-earPico ArierioSticky Mouse-earRibero FrioSea CampionPonta de Sao Lourence

Goose-foot Family

Shrubby Sea-blite Ponta de Sao Lourence

Rock-rose Family

A Cistus Roadside

Lily-of-the-Valley Tree

Family

Lily-of-the-Valley Tree Ribeiro Frio - Balcoes

St.John's-wort Family

A St.John's Wort Ribeiro Frio - Balcoes
Large leafed St John's Wort Ribeiro Frio - Portela
Trailing St.John's Wort Pico Ruivo
West of Sao Vicente

Bindweed Family

Field Bindweed

Mallow-leaved Bindweed Ponta de Sao Lourence
Morning Glory Funchal –Roadsides

Stonecrop Family

Disc Houseleek
Viscid Houseleek
Cancela Garajau
Cancela Garajau
Madeira Stonecrop
Ribeiro Frio - Balcoes
Downy Stonecrop
Ribeiro Frio - Balcoes
Coastal Cliffs West of So Vicente

Mealy Stonecrop Pico Ruivo Navelwort Pico Ruivo

Heath Family

Madeiran HeatherPico RuivoTree HeatherPico ABesom HeathRibeiro Frio - BalcoesRhododendronRibeiro FrioMadeira BilberryRibeiro Frio - Balcoes

Spurge Family

Castor Oil Plant

Melliferous Spurge

Smooth Spear-leaved Spurge

Petty Spurge

Funchal - Roadsides

Ribeiro Frio

Cancela Garajau

Ponta de Sao Lourence

Pea Family

Pitch Trefoil Ponta de Sao Lourence Broom Roadsides / Pico Ruivo

Madeira Greenweed

Madeiran Bird's-foot Trefoil Porto da Cruz

Thymus caespititius

Pico Ruivo

Scientific name	Common name	Location
Lotus parviflorus	A Bird's-foot Trefoil	
Lotus suaveolens	A Bird's-foot Trefoil	
Medicago polymorpha		
Melilotus indicus	Small Melilot	Ponta de Sao Lourence
Ornithopus perpusillus	Common Bird's-foot	Pico Ruivo
Scorparius muricatus	Scorpion Vetch	Ponta de Sao Lourence
Teline maderensis*	Shrub Trefoil	Ribeiro Frio - Portela
Trifolium campestre	Hop Trefoil	Encumeada
Trifolium repens	White Clover	Roadside
Trifolium resputinatum		Roadside
Trifolium stellatum	Starry Clover	Funchal
Trifolium angustifolium	Narrow leafed Crimson	Ponta de Sao Lourence
<u>-</u>	Clover	
Ulex europaeus Vicia sativa	Gorse Common Vetch	Widespread Ribeiro Frio - Balcoes
VICIA SALIVA	Common vetch	Ribello Filo - Balcoes
Fagaceae	Beech Family	
Quercus robur	Pedunculate Oak	Ribeiro Frio - Balcoes
Castanea sativa	Sweet Chestnut	Ribeiro Frio - Balcoes
Frankeniaceae	Sea Heath Family	
Frankenia laevis	Sea Heath	Porto da Cruz
Fumariaceae	Fumitory Family	
Fumaria muralis subsp. Boraei	Wall Fumitory	Ribeiro Frio - Balcoes
Geraniaceae	Geranium Family	
Erodium botrys	A Stork's-bill	
Erodium cicutarium	Common Stork's-bill	
Erodium malacoides	A Stork's-bill	
Geranium dissectum	Cut-leaved Crane's-bill	
Geranium lucidum	Shining Crane's-bill	Rabacal - Risco
Geranium maderense*	Madeira Stork's-bill	Botanic Garden
Geranium palmatum*	Anemone-leaved Stork's-bill	Ribeiro Frio - Balcoes
Geranium purpureum	Little Robin	Ribeiro Frio - Balcoes
Geranium robertianum	Herb Robert	Ribeiro Frio - Balcoes
Globulariaceae	Globularia Family	
Globularia salicina*	A Globularia	Cancela Garajau
	M	
Hydrangeaceae	Mock-orange Family	B" : E: B : I
Hydrangea macrophylla	Hydrangea	Ribeiro Frio - Portela
Lamiaceae	Dead-nettle Family	
Bystropogon maderensis*	Bystropogon	Ribeiro Frio - Balcoes
Bystropogon punctatus*	Bystropogon	Rabacal – Risco
Cedronella canariensis*	Canary Dragon Herb	Rabacal
Clinopodium vulgare	Wild Basil	Pico Ruivo
Prunella vulgaris	Self-heal	Ribeiro Frio - Balcoes
Sideritis candicans var.candicans*	Madeira Ironwort	Encumeada
Stachys oxymastrum	A Woundwort	West of Sao Vicente

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Mountain Tyme

Plantaginaceae

Plantago coronopus

		<u> </u>
Scientific name	Common name	Location
Lauraceae	Bay Family	
Apollonias barbujana	Canary Ebony	Funchal - Street Tree
Ocotea foetens*	Fetid Madeiran Laurel	Ribeiro Frio - Balcoes
Laurus novocanariensis	Canary Laurel	Ribeiro Frio - Balcoes
Persea indica	Madeiran Mahogany	Ribeiro Frio
Lythraceae		
Lythrum junceum		
Malvaceae	Mallow Family	
Lavatera arborea	Tree Mallow	
Lavatera cretica	Cretian Tree-mallow	Ponta de Sao Lourence
Malva sylvestris	Common Mallow	Roadside - Funchal
Mimosaceae	Wattle Family	
Acacia longifolia	Sallow Wattle	Rabacal
Acacia mearnsii	Black Wattle	Cabo Girao - View point
Acacia melanoxylon	Australian Blackwood	
Moraceae	Fig Family	
Ficus carica	Fig	
Morus nigra	Mulberry	
Myrtaceae	Myrtles & Gum Family	
Eucalyptus globules	Blue Gum	Widspread
Myrica faya	Wax Myrtle	
Nyctaginaceae	Bougainvillea Family	
Bougainvillea glabra	Bougainvillea	Funchal
Oleaceae	Olive Family	
Olea europaea var. Maderensis	Olive	Occasional South Coast
Picconia excels	Picconia	Encumeada
Onagraceae	Willowherb Family	
Epilobium obscurum	Long-friuted Willowherb	West of Sao Vicente
Fuchsia magellanica	Fuchsia	Ribeiro Frio - Portela
Oenothera stricta	Evening Primrose	Roadside
Orobanchaceae	Broomrape Family	
Orobanche minor	Lesser Broomrape	Pico Ruivo
Oxalidaceae	Wood-sorrel Family	
Oxalis latifolia	Garden Pink Sorrel	Funchal
Papaveraceae	Poppy Family	
Chelidonium majus	Greater Celandine	Ribeiro Frio
Eschscholzia californica	Californian Poppy	Funchal - Roadsides
Papaver rhoeas	Common Poppy	Cultivated Field
Papaver somniferum	Opium Poppy	Cultivated Field

Plantain Family

Buck's-horn Plantain

Porto da Cruz

Saxifragaceae

Saxifraga maderensis var. maderensis*

Scientific name Common name Location Hare's-foot Plantain Ponta de Sao Lourence Plantago lagopus Ribwort Plantain Ponta de Sao Lourence Plantago lanceolata Plantago major Greater Plantain Ponta de Sao Lourence Thrift Family Plumbaginaceae Armeria maderensis* Polygonaceae **Knotweed Family** Emex spinosa **Emex** Encumeada Persicaria capitata Pink Garden Knotgrass Persicaria maculate Redshank Polygonum aviculare Knotgrass Porto da Cruz Polygonum maritimum Sea Knotgrass Rumex acetosella Sheep-sorrel Pico Ruivo Rumex crispus **Curled Dock** Rabacal Rumex maderensis* Madeiran Sorrel Roadside Rumex obtusifolius **Broad-leaved Dock** Ribeiro Frio - Balcoes Rumex pulcher Fiddle Dock Ponta de Sao Lourence Rumex bucephalophorus spp canariensis Pico Ruivo Primulaceae **Primrose Family** Anagallis arvensis (Red) Roadside Scarlet Pimpernel Samolus vallerandi West of Sao Vicente **Brookweed** Ranunculaceae **Buttercup Family** Ranunculus cortusifolius var. minor* A Buttercup Pico Ruivo Ranunculus cortusifolius var. major* A Buttercup Ribeiro Frio - Balcoes Ranunculus repens Creeping Buttercup Ribeiro Frio Resedaceae Mignonette Family Reseda luteola Weld Cancela Garajau Rosaceae **Rose Family** Duchensea indica Yellow-flowered Strawberry Ribeiro Frio - Balcoes Ribeiro Frio - Balcoes Fragaria vesca Wild Strawberry Prunus avium Wild Cherry Encumeada Rosa canina Dog Rose Rabacal Rubus agg A bramble Rabacal Rubiaceae **Bedstraw Family** Galium aparine Cleavers Ribeiro Frio - Balcoes Pico Ruivo Galium productum Madeiran Bedstraw Phyllis nobla* Bastard Hare's-ear West of Sao Vicente Rubia agostinhoi Madeiran Madder Ribeiro Frio - Portela Sherardia arvensis Field Madder Pico Ruivo Salicaceae Willow Family Salix canariensis* Madeiran Willow Encumeada

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Saxifrage Family

Madeira Saxifrage

Cho de Cancela

Scientific name	Common name	Location
Scrophulariaceae	Figwort Family	
Cymbalaria muralis	Ivy-leaved Toadflax	Funchal
Digitalis purpurea	Foxglove	Ribeiro Frio - Balcoes
Odontites holliana	-	Pico Ruivo
Scrophularia hirta*	A Figwort	West of Sao Vicente
Scrophularia racemosa*	A Figwort	Ribeiro Frio - Balcoes
Sibthorpia peregrina*	Madeira Moneywort	Ribeiro Frio - Balcoes
Veronica anagallis-aquatica	Blue Water Speedwell	
Solanaceae	Nightshade Family	
Lycopersicon esculentum	Tomato	Ponta de Sao Lourence
Nicotiana glauca	Shrub Tobacco	Ponta de Sao Lourence
Solanum linnaeanum	Sodams Apple	Ponta de Sao Lourence
Solanum mauritianum	Garleaf Nightshade	Roadside to Pico Ruivo
Solanum nigrum	Black Nightshade	Ponta de Sao Lourence
Cyphomandra betacea	Tree Tomato	Cho de Cancela
Tamaricaceae	Tamarix Family	
Tamarix gallica	Tamarisk	Porto da Cruz
Tropaeolaceae	Nasturtiums	
Tropaeolum majus	Nasturtium	Ribeiro Frio
Urticaceae	Nettle Family	
Parietaria judaica	Pelitory -of-the-wall	Funchal
Valerianaceae	Valerian Family	
Centranthus rubra	Red Valerian	Funchal
Centranthus calcitrapae subsp. calcitrapae	Small Valerian	Pico Ruivo
Valerianella dentata ?	A Corn Salad	Rabacal
Violaceae	Violet Family	
Viola paradoxa*	Madeiran Yellow Violet	Pico Ruivo
Viola riviniana	Common Wood Violet	Ribeiro Frio - Balcoes
Liliidae (Monocotyle	dons)	
Agavaceae	Century Plant Family	
Agave attenuate		Funchal - Roadsides
Agave Americana	Century Plant	Roiadsides
Dracaena draco*	Dragon Tree	Ribeira Brava
Araceae	Arum Family	
Zantedeschia aethiopica	Calla Lily	Encumeada
Cannaceae	Canna Lily Family	
Canna indica	Yellow Canna Lily	
Iridaceae	Iris Family	
Crocosmia x crocosmiflora	Montbretia	Ribeiro Frio - Balcoes
Watsonia borbonica	Bugle Lily	Encumeada
Liliaceae	Lily Family	
Agapanthus praecox	African Lily	

Scientific name Common name Location

Aloe arborescensSword AloeRuscus streptophyllus*A Butcher's-broomRibeiro Frio - BalcoesSemele androgyna*Climbing Butcher's-broomRibeiro Frio - Portela

Orchidaceae Orchid Family

Dactylorhiza foliosa*Madeira Marsh OrchidRibeiro FrioOrchis scopulorumRock OrchidRabacal

Poaceae Grass Family

Pico Ruivo Aira praecox Early Hair-grass Anthoxanthum odoratum **Sweet Vernal Grass** Pico Ruivo Arundo donax Giant Reed Funchal - South Coast Winter Wild-Oat Ponta de Sao Lourence Avena sterilis Briza maxima Large Quaking-grass Roadsides Briza minor Annual Quaking-grass Roadsides Hordium murinum Wall Barley Ponta de Sao Lourence Lagurus ovatus Hare's-tail Grass Pico Ruivo Setaria verticillata Rough Bristle-grass **Funchal** Stipa capensis Mediterranean Needle-grass Ponta de Sao Lourence

ZingiberaceaeGinger Lily FamilyHedychium gardineranumYellow Ginger Lily

Lichens

Xanthoria parietinaYellow/Orange LichenSea ShoreLobaria pulmonariaLungwortForestsUsnea barbataOld Man's BeardForests

Fungi

Laurobasidium laurii Madeiran Laurel Fungus

Principle Street Trees of Funchal Scientific Name

English Name Location Agathis brownie Kawri of the East Indies Street, Funchal Kapok Tree Street, Funchal Chorisia speciosa Jacaranda mimosifolia Jacaranda Street, Funchal Markhamia lutens [platycalyx] Yellow Trumpet Tree Street, Funchal Flame of the Forest Spathodea campanulata Street, Funchal Pride of Bolivia Tipuana tipu Street, Funchal

Plants Associated with Parks, Streets & Gardens

Location Scientific Name **English Name** Agave attenuate Maguey Plant Airport Araucaria bidwillii Bunva Pine **Funchal** Norfolk Island Pine **Funchal** Araucaria heterophylla Archontophoenix cunninghamiana Elegant Palm Street, Funchal Bauhinia variegate Orchid Tree Gardens, Funchal Bougainvillea Street, Funchal Bougainvillea x hybrid Brachychiton acerifolium Flame Tree Street, Funchal Brunsfelsia Gardens, Funchal Brunfelsia pauciflora Brunsvigia rosea (Amaryllis belladonna) Amarvllis Residencial Pina Angel's Trumpet Gardens, Funchal Burgmansia versicolor

Scientific name Common name Location

Callistemon viminalis Weeping Bottle-brush Street, Funchal Garden, Ribeiro Frio Camelia japonica Camelia Carica papaya Papaya **Funchal** Cassia (Senna) didymobotrya Popcorn Bush Gardens, Funchal Dicksonia Antarctica Tree Fern Gardens, Funchal Dombeya wallichii Tropical Hydrangea Tree Gardens, Funchal Eriobotrya japonica Japanese Loquat Tree Gardens, Funchal Red Hot Poker Tree Erythrina abyssinica Gardens, Funchal Erythrina crista-galli Cock's-comb or Coral Tree Street, Funchal Eugenia uniflora **Brazil Cherry** Residencial Pina Euphorbia ingens Candelabra Tree Garden, Funchal Euphorbia pulcherrinia Poinsettia Garden, Funchal Ficus elastic Indian Rubber Tree Gardens, Funchal Hibiscus rosa-sinensis Hibiscus or Shoe Plant Street, Funchal Paradise Palm San Francisco Gdns, Funchal Howea forsteriana Gardens, Funchal Kigelia Africana Fetish Tree Red Hot Poker Residencial Pina Kniphofia uvaria Ligularia tussilaginea Coltsfoot Gardens, Funchal Mangifera indica Mango Garden, Santana Milia azedarach Persian Lilac or Bead Tree Street, Funchal Monstera deliciosa Mexican Breadfruit Gardens, Funchal West of Funchal Musa acuminate **Dwarf Banana** Silver Banana Plantations Funchal Musa x paradisica Myoporum acuminatum Australian Blueberry West of Funchal Nerium oleander Street, Funchal Oleander Pandanus utilis Screwpine Street, Funchal Polygala myrtifolia Gardens, Funchal Phoenix canariensis Canary Island Palm Street, Funchal Plumbago auriculata Plumbago Street, Funchal Frangipani Gardens, Funchal Plumeria rubra Saccharum officinarium Suger Cane **Plantations** Street, Funchal Schefflera actinophylla Umbrella Tree Bird of Paradise Plant Residencial Pina Stelitzia reginae Washingtonia filifera Fountain Palm Residencial Pina

Birds

Common name	Scientific name	Location
Common Kestrel	Falco tinnunculus canariensis	Frequent on South Coast
Atlantic Yellow-legged Gull	Larus michahellis atlantis	Funchal Harbour
Rock Dove	Columba livia	Sao Laurenco
Trocaz Pigeon	Columba trocaz	Rabacal
Plain Swift	Apus unicolor	Funcal
Eurasian Blackcap	Sylvia atricapilla heineken	Funchal / Laural Forest
Madeira Firecrest	Regulus madeirensis	Laural Forest
Common Blackbird	Turdus merula cabrerae	Laural Forest
European Robin	Erithacus rubecula	Laural Forest
Grey Wagtail	Motacilla cinerea schmitzi	Ribero Frio
Berthelot's Pipit	Anthus berthelotii	Pico Ruivo
Madeira Chaffinch	Fringilla coelebs maderensis	Ribeiro Frio / Rabbacal
Atlantic Canary	Serinus canaria	Funchal / Porto da Cruz

Butterflies

Small White Pieris rapae Occasional Pico Ruivo Clouded Yellow Colias crocea faillae Madeiran Cleopatra Gonepteryx maderensis Pico Ruivo Pico Ruivo Madeiran Small Copper Lycaena phlacas phlaeoides Long-tailed Blue Lampides boeticus Botanic Garden Monarch or Milkweed Butterfly Danaus plexippus Occasional Vanessa vulcania Chao da Riberia Macaronesian Red Admiral European Speckled Wood Pararge aegeria aegeria Rabacal Madeiran Speckled Wood Rabacal Pararge xiphia

Other Invertebrates

A Bush Cricket

Decrticus albifrons

Ponta de Sao Lourence

Amigilla maderae

Occasional

Bumble Bee

Bombus maderensis

Coccinella 7-punctata

Banded Garden Spider Argyope bruennichi Garajau

Cochineal Dactylopius coccus On Prickly Pear at Garajau

Amphibians & Reptiles

Madeiran Wall Lizard Lacerta (Teira) dugesii Widspread

Perez's Frog Rana perezi Ribeiro Frio and Botanic Gardens

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African Tulip Tree - Funchal