

# Madeira - The Floating Garden

Naturetrek Tour Report

4 - 11 June 2013

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Report compiled by Martin Beaton



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## Day 1

Tuesday 4th June

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

We met at Gatwick Airport for an early flight to Funchal. On arrival we made our 30 minute transfer to our hotel the 'Residential Pina', and after settling into our rooms we had a light lunch at the hotel. 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 mimosifolia* (Jacaranda), *Tipuana tipu*, (Pride of Bolivia), *Markhamia platycalyx* (Yellow Trumpet tree), *Spathodea campanulata* (African Tulip Tree) and *Erythrina abyssinica* (Coral Tree)

Whilst there are a large number of gardens in Funchal there are two gardens of note near the centre which a number of people found time to visit; The Municipal Garden, an elderly, elegant and remarkable little garden designed by Edouard Andre and built in 1880 the original band stand and rails were removed around 1935 and the garden subsequently developed a more intimate link with the small square that sits within. The English Church and Garden has a Church built in 1816 which bears no outward appearance of a place of worship as bell towers were banned and everything was enclosed by a high wall. The garden itself is small and quaint rather than exuberant and maintained by a dedicated band of volunteers.

In addition Parque Santa Catarina Garden lies to the west of the modern centre of Funchal. Designed by Miguel Jacobetty Rosa and completed in 1966 on the site of the old town cemetery the garden has continued to evolve with the addition of steeply terraced walks overlooking the port. Tonight we ate at the excellent 'Resteraunte Los Combatentes' on the edge of the municipal garden where a number of people enjoyed the local Scabbard Fish.

## Day 2

Wednesday 5th June

Weather: Cool and cloudy in the mountains around Ribeiro Frio

Our focus of today was to explore the Laurel Forests around Ribeiro Frio and to familiarize ourselves with the principle forest trees and plants of this internationally important habitat. From our hotel in Funchal we drove north and 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, *Echium candicans* (Pride of Madeira) and conspicuous flowers of *Argyranthemum pinnatifolium* (Argyranthemum) and *Dactylorhiza foliosa* (Madeira Marsh Orchid).

At Ribeiro Frio we stopped initially to look at the small garden 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 scaptrum*) was probably saved from extinction by this little garden. Our visit also provide an opportunity to familiarise ourselves with a number of Laurels that occur within the forest that are notoriously difficult to identify when not in flower, along with other notable indigenous plants.

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 *Laurus azorica* (Azores Laurel) with its parasitic fungus *Laurobasidium laurii* (Madeiran Laurel Fungus), *Ocotea foetens* (Fetied Laurel) and occasionally *Clethera arborea* (Lily of the Valley tree). The smaller tree and shrub species include *Erica scoparia* (Bessom Heath) and *Vaccinium padifolium* (Maderian Bilberry) and occasionally *Erica arborea* (Tree Heather). The invasion of the forest by non-native species including *Quercus robur* (English Oak) and *Acer pseudoplatanus* (Maple) was observed. Along the edges of the levada we found *Geranium palmatum* (Anemone-leaved Crane's-bill), *Aichyrison divaricatum* (Madeiran Stonecrop), the ubiquitous but endemic *Sibthorpia peregrine* (Madeiran Moneywort). We also found *Dunghensea indica* (Yellow flowered Strawberry) along with our first views of *Melanoselinum decipens* (Black Parsley).

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

We returned and made a short drive, up to a picnic area on Pico do Arieiro (1818 metres) and had lunch below *Pinus pinaster* (Maritime Pine) where we had glimpses of Clouded Yellow butterflies and swifts, principle Pallid Swift, overhead. After lunch we made a brief visit to the summit of Pico do Arieiro, which is readily accessible by road. Edwardo explained that the road to the Pico do Arieiro was, only a few years ago, lined with *Sorbus maderensis*\* (Madeiran Rowan). However a devastating fire has laid bare the mountainsides and whilst this is gradually returning to green with a few pioneering shrubs, it will take many years more to regenerate fully. At the summit where we were able to see and photograph some fine specimens of *Echium candicans*\* (Pride of Madeira) and we saw several Clouded Yellow Butterflies en route and captured a picture of a Hummingbird Hawk moth.

In the afternoon we returned to Ribeiro Frio to walk Levada Portela and continue our exploration of the Laurel Forests. In addition to the Laurel species already encountered we found *Ilex canariensis* (Canary Holly), *Sonchus fruticosus* (Shrubby Sow Thistle) and *Ruscus strepophyllus* (A Butchers Broom). Unfortunately as a result of the cool weather we saw no butterfly activity and few birds beyond Madeiran Chaffinch and although we heard Madeiran Firecrest they proved elusive. This evening we ate an enjoyable meal at Jarden de Carreira.

## Day 3

Thursday 6th June

Weather: Cloudy and cool on the coast. Clear and warm above the cloud base on the Mountain, but with occasional cloud.

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. *Erica arborea* (Tree Heather) *Erica scoparia* (Besom Heath) which replace the Laurel forest at altitude are themselves replaced on these mountains with a more open grassland with scattered bushes of *Erica maderensis* (Maderian Heather).

Our walk into this open mountain vegetation began from the car park 270 m below the summit and approx 2 km from the peak. Whilst looking at our first Berthelot's Pipit we also found *Lotus angustissimus* (Slender Birds Foot Trefoil) and the tiny specimen of *Ornithopilus perpusillus* (Common Birds Foot.) and *Clinopodium vulgare* (Basil) was also seen flowering. We found several non-flowering specimens of *Tolpis macrorhiza* (Madeiran Hawkweed) growing in the edge of the path. *Andryala glandulosa* spp *varia* (*A Andryala*) was seen sporadically along the route and *Ranunculus cortusifolius* ssp. *minor* (Large-leaved buttercup) was seen growing in a damp cliff face.

With the 'Refugio' in sight we also discovered *Carlina salicifolia* (Willow leafed Carlina Thistle) and saw our first patch of *Thymus caespitosus* (Mountain Thyme) and *Odentites holliana* (yellow odentites) and *Arabis alpine* spp *caucasica* (Rock cress). The hut provided a welcome rest, before a number of us completed the final climb to the peak. The vegetation on the south face Pico Ruivo had been damaged by the fire but from the viewing platform we saw *Viola paradoxa* (Madeiran Yellow Violet) growing on a ledge alongside *Sedum farinosum* (Mealy Stone Crop). On our return to the car park, we set up our picnic under the canopy of the car park lodge.

We made our return trip via Porta da Cruz and saw 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 spirit used in the traditional Poncha liqueur. This visit was followed by a short walk around the coastal headland where we saw *Lotus glaucus* (Madeiran Birds-foot Trefoil) *Crithmum maritimum* (Rock Samphire) *Plantago coronopus* (Buck's-horn Plantain), and in addition we saw Canary, Common Tern and two Turnstones and finally a coffee stop. Tonight we ate at the 'Restaurante Londres'

## Day 4

Friday 7th June

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

Today we drove east to 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 see elsewhere on Madera. The peninsular already appeared very dry and the grassland had already turned brown. Along the path we saw small patches of *Aizoon canariensis* (Aizoon) hugging the ground and *Galactites tomentosa* (Boar Thistle) along the path edges although this had mostly finished flowering, along with *Echium plantagineum* (Purple Vipers Vugloss).

After walking down the first valley and crossing the wooden bridge we saw the yellow fruit of *Solanum sodomaeum* (Apple of Sodom) and the yellow flowering *Scolymus maculatus* (Spotted Golden Thistle) and nearby the lighter yellow flowers of *Carthamus lanatus* (A Safflower) . On our approach to the first view point we found *Silene uniflora* (Sea Champion) and *Andryala glandulosa* spp *glanulosa* (A Andryala) close to the first viewpoint we discovered *Mesembryanthemum nodiflorum* (An Ice Plant) and *Mesembryanthemum cristil* (Common Ice Plant). We also saw found *Helichrysum devium* (Everlasting), and *Helechrysum obconicum*.

Walking down the valley we initially saw Berthalots Pipit and Kestrel. Numerous large locust spp were seen in the grassland. We also saw Buzzard, Common Tern, Plain Swift, Rock Dove and Yellow-legged Gulls. There were also excellent views of lava flows and dyke swarms. Returning to our vehicle we saw our first spectacular flowering specimen of *Cynara cardunculus* var *ferocissima* (Cardoon).

After lunch we made a short tour of Canicel Harbour and had a coffee before moving on to Garajau where the huge statue of Christo Rei was erected in 1927 where it stands with outstretched arms on a headland 200 metres above the sea welcoming visitors to the island. This was a great opportunity to see some of the surviving flora of the south coast at close hand including *Euphorbia piscatorial* (Fish Stunning Spurge) *Globularia salicina*, (Globe Flower) *Aeonium glandulosum* (Disk Houseleek) *Aeonium glutinosum* (Viscid Houseleek) and *Soncus ustulatus* subsp *maderensis* (Burnt Sow Thistle). We also saw a number of introduced plants including *Opuntia tuna* (Prickly Pear) and *Nicotiana glauca* (Shrub Tobacco). Amazingly we also found a single specimen of *Armeria maderensis* (Madeiran Thrift) growing in completely the wrong habitat at sea level rather than in the mountains! Tonight we ate at Laundres

## Day 5

Saturday 8th June

Weather: Cloudy, becoming brighter and warm 21°C

This was a free day and everyone took the opportunity to visit the one or more of the very well known and accessible gardens of Monte Palace and Monte Public garden or the Botanic Garden.

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 *Geranium maderensis* (Madeiran Geranium) We saw also found Perez's Frogs in the water features, Short Tailed Blue butterflies occurring on a hedge below the formal terrace and European Speckled Wood in the shaded walkways of the woodland garden.

Monte Place Garden was established in its current form in the 1980s by Jose Berarado. It is designed within a valley around a Japanese theme which 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 along with plants from the laurel forest.

Monte Public Garden began in 1894. It is a magnificent survivor of nineteenth century horticulture and has a simplicity of planting. Switch back paths climb down from the twin towers of the Monte Church to reach a fountain and square and then falls from sight under a high stone viaduct that used to carry the railway.

By popular demand tonight we ate at Resaurante de Combatantes

## Day 6

Sunday 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. However 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 now Dragon Trees are 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 Encumeada to the cave complex a few kilometres short of Sao Vicente. Where we visited the Centro do Vulcanismo visitor centre one of the few locations in Europe than you can stand within a series of lava tubes which are associated with the last volcanic period on Madeira some 650,000 years ago. The complex is set in pleasing and well-tended gardens with specimen trees of *Erythrina crista-galli* (Coral Tree), and *Tibouchina urvilleana* (Brazilian Spider Flower).

Continuing north and then west after Sao Vicente, we walked a short section of the now closed and redundant coast road where we encountered wonderful examples of *Aeonium glandulosum* (Disc Houseleek), *Crithmum maritimum* (Rock Samphire), and *Helichrysum melaleucum* (White Everlasting) *Tolopsis succulenta* (A Hawkweed) *Samolus valerandi* (Brookweed) *Phyllis noble* (Bastard Hare's Ear) *Delairea odorata* (German Ivy) *Stachys oxymastrum* (A Woundwort) *Agranthemum haemotomma?* (Blood eyed Chrysanthemum) and *Sinapidendra gymnocalyx* (Naked-calyx Rock-cress)

Our picnic was taken at Chao de Ribeira, south of Seixal, where we found *Saxifraga madredensis*\* growing in a cliff face. After lunch we continued west for a few kilometres to Porto Moniz where we wandered amongst the bars and cafes that had sprung up between the 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 Espaco Funchal, a great discovery which provided great quality food and a challenge to Combatentes!

## Day 7

Monday 10th June

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

Today we explored a number of different habitats with Madeira's central highlands. We began by travelling to Encumeada where we explored an area of Laurel Forests along part of Levada do Norte (Folhadal). This provided us with an opportunity to continue to familiarise ourselves with the flora of these unique forests and to make a number of new discoveries.

Alongside *Laurus azorica* (Cannary Island laurel) *Ocotea foetens* (Fetid Laurel) *Clethra arborea* (Lily of the Valley Tree) and *Erica arborea* (Tree Heather) and *Erica scoparia* (Beesom Heath) we found *Ilex perado* (Madeira holly) and *Picconia excelsa* (Picconia) and along the sides of the levada we also discovered *Sideritis candicans var candicans* *Cedronella canariensis* (Canary Dragons Herb) and *Euphorbia mellifera\** (Melliferous Spurge). We also had fantastic close views of Madeiran Firecrest, saw goldfinch and heard greenfinch, and in addition we saw both the European Speckled Wood and Maderian Speckled Wood butterflies.

On return to the vehicle we headed west for a couple of kilometres to Bica da Cana where we took lunch at the picnic tables under the canopy of tree heathers. Unfortunately low cloud rolled in and we were deprived of clear views of this upland plain. After lunch we continued on to Rabacal, and walked down to the government office. The walk passes through a natural landscape dominated by *Erica arborea* (Tree Heather) and *Erica scoparia* (Beesom Heath) which replaces the Laurel forests at altitude. From the government building we walked the shorter route along the Levada do Risco to the waterfall. Here we saw many *Arabis alpine* subsp. *caucasica* (Rockcross), and found several (35 spikes) of *Orchis scopolorum* (Rock Orchid). Tonight we ate at Combatentes, by now our favourite restaurant.

## Day 8

Tuesday 11th June

Weather: Sunny with some cloud.

We were picked up for our return journey to the airport to catch our 12.15 plane having seen a range of the natural and manmade habitats of the island.

I am grateful to Chris, Jenny, Sally, David, Joe, Marian and Gillian for their contributions to the trip and perceptive observations of the plants butterflies and birds that we saw. The tour report includes an overview of the habitats and species that we saw. The species lists include all the species that we observed including the corrections and additions made in reviewing the notes. Endemic species are marked\*.

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## Species List

### Plants

Scientific name	Common name	Location
<b>PTERIDOPHYTES</b>		
<b>FERNS &amp; ALLIES</b>		
<b>Selaginellaceae</b>		
<i>Selaginella denticulata</i>	A Clubmoss	Ribeiro Frio - Balcoes
<i>Selaginella kraussiana</i>	Krauss's Spikemoss	Ribeiro Frio - Portela
<b>Equisetaceae</b>		
<i>Equisetum telmateia</i>	Great Horsetail	Roadside from Rabbacal
<b>Adiantaceae</b>		
<i>Adiantum capillus-veneris</i>	Maidenhair Fern	Ribeiro Frio - Portela
<i>Anogramma leptophylla</i>	Jersey Fern	Ribeiro Frio - Portela
<b>Aspleniaceae</b>		
<i>Asplenium hemionitis</i>	Mules Spleenwort	Botanic Garden
<i>Asplenium monanthes</i>	A Spleenwort	Ribeiro Frio - Portela
<b>Blechnaceae</b>		
<i>Blechnum spicant</i>	Hard Fern	Ribeiro Frio - Balcoes
<i>Woodwardia radicans</i>	Chain Fern	Ribeiro Frio - Balcoes
<b>Davalliaceae</b>		
<i>Davallia canariensis</i>	Hare's-foot Fern	Ribeiro Frio - Portela
<b>Dennstaedtiaceae</b>		
<i>Pteridium aquilinum</i>	Bracken	Throughout
<b>Dryopteridaceae</b>		
<i>Dryopteris affinis subsp. affinis</i>	Scaly Male Fern	Ribeiro Frio - Balcoes
<i>Polystichum setiferum</i>	Soft Shield fern	Ribeiro Frio - Balcoes
<b>Hymenophyllaceae</b>		
<i>Hymenophyllum tunbrigense</i>	Tunbridge Filmy Fern	Ribeiro Frio - Portela
<b>Polypodiaceae</b>		
<i>Polypodium macaronesicum</i>	Macaronesian Polypody	Ribeiro Frio - Balcoes
<b>Pteridaceae</b>		
<i>Pteris vittata</i>	Ladder Brake	Funchal
<b>Woodsiaceae</b>		
<i>Athyrium filix-femina</i>	Lady Fern	Ribeiro Frio - Portela
<b>PINOPSIDA (GYMNOSPERMS)</b>		
<b>CONIFERS</b>		
<b>Cupressaceae</b>		
<i>Cryptomeria japonica</i>	Japanese Red Cedar	Ribeiro Frio
<i>Juniperus phoenicea</i>	A Juniper	Encumeada



<b>Scientific name</b>	<b>Common name</b>	<b>Location</b>
<b>Pinaceae</b>	<b>Pine Family</b>	
<i>Pinus pinaster</i>	Maritime Pine	Pico Ariero
<i>Pinus pinea</i>	Stone or Umbrella Pine	Occasional - Planted
<i>Pseudotsuga menziesii</i>	Douglas Fir	Road to Ribeiro Frio
<b>MAGNOLIOPSIDA (ANGIOSPERMS)</b>	<b>FLOWERING PLANTS</b>	
<b>Magnoliidae (Dicotyledons)</b>		
<b>Acanthaceae</b>	<b>Bear's-breech Family</b>	
<i>Acanthus mollis</i>	Bear's-breech	Roadside - Funchal
<b>Aceraceae</b>	<b>Maple Family</b>	
<i>Acer pseudoplatanus</i>	Sycamore	Ribeiro Frio
<b>Aizoaceae</b>	<b>Dewplant Family</b>	
<i>Aizoon canariensis</i>	Aizoon	Ponta de Sao Lourence
<i>Mesembryanthemum nodiflorum</i>	An Ice-plant	Ponta de Sao Lourence
<i>Mesembryanthemum crystallinum</i>	Common Ice-plant	Ponta de Sao Lourence
<i>Carpobrotus edulis</i>	Yellow Hottentot Fig	Ponta de Sao Lourence
<b>Amaranthaceae</b>	<b>Pigweed Family</b>	
<i>Achyranthes aspera</i>	-	Pt Garajani
<b>Apiaceae</b>	<b>Carrot Family</b>	
<i>Foeniculum vulgare</i>	Fennel	Pt Garajani
<i>Melanoselinum decipiens*</i>	Black Parsley	Ribeiro Frio - Balcoes
<i>Crithmum maritimum</i>	Rock Samphire	Porto da Cruz
<i>Oenanthe divaricata*</i>	Madeira Water Dropwort	West of Sao Vicente
<b>Aquifoliaceae</b>	<b>Holly Family</b>	
<i>Ilex perado subsp. perado</i>	Madeira Holly	Encumeada
<b>Araliaceae</b>	<b>Ivy Family</b>	
<i>Hedera helix subsp. canariensis</i>	Ivy	Ribeiro Frio
<b>Asteraceae</b>	<b>Daisy Family</b>	
<i>Ageratina adenophora</i>	White Eupatorium	West of Sao Vicente
<i>Andryala glandulosa subsp. glandulosa</i>	Andryala	Ponta de Sao Lourence
<i>Andryala glandulosa subsp. varia</i>	Andryala	Pico Ruivo
<i>Argyranthemum pinnatifidum ssp.pinnatifidum*</i>	Argyranthemum	Ribeiro Frio
<i>Argyranthemum pinnatifidum ssp.succulentum*</i>	Mandon's Chrysanthemum	West of Sao vicente
<i>Bidens pilosa var.minor</i>	A Bur-marigold	Roadside - Monti Palace
<i>Calendula arvensis</i>	Field Marigold	Roadside - Lava Tubes
<i>Carduus squarrosus</i>		Pico Ruivo
<i>Carlina salicifolia*</i>	Willow-leaved Carlina Thistle	Pico Ruivo
<i>Carthamus lanata</i>	A Safflower	Ponta de Sao Lourence
<i>Cichorium intybus</i>	Chicory	Ponta de Sao Lourence
<i>Cynara cardunculus var ferocissima</i>	Cardoon	Ponta de Sao Lourence
<i>Delairea odorata</i>	German Ivy	West of Sao vicente
<i>Erigeron karvinskianus</i>	Mexican Fleabane	Ribeiro Frio
<i>Filago minima</i>	Small Cudweed	Pico Ruivo
<i>Galactites tomentosa</i>	Galactites	Ponta de Sao Lourence

Scientific name	Common name	Location
<i>Galinsoga parviflora</i>	Gallant Soldier	Roadside - Funchal
<i>Helichrysum devium</i> *	Everlasting	Ponta de Sao Lourence
<i>Helichrysum melaleucum</i> *	White Everlasting	Ribeiro Frio
<i>Helichrysum obconicum</i> *	Everlasting	Ponta de Sao Lourence
<i>Hypochaeris glabra</i>	Smooth Cat's-ear	Pico Ruivo
<i>Hypochaeris radiata</i>	Rough cat's-ear	Ponta de Sao Lourence
<i>Lapsana communis</i>	Nipplewort	Roadside
<i>Pericaulis aurita</i> *	Madeira Groundsel	Encumeada
<i>Scolymus maculatus</i>	Spotted Golden Thistle	Ponta de Sao Lourence
<i>Senecio vulgaris</i>	Groundsel	Funchal
<i>Sonchus fruticosus</i> *	Shrubby Sow Thistle	Ribeiro Frio
<i>Sonchus oleraceus</i>	Smooth Sow Thistle	Funchal
<i>Sonchus pinnatus</i> *	A Sow Thistle	Slopes above Funchal
<i>Sonchus ustulatus subsp.maderensis</i> *	Burnt Sow Thistle	Cancela Garajau
<i>Tolpis macrorhiza</i> *	Madeira Hawkweed	Pico Ruivo
<i>Tolpis succulenta</i> *	Hawkweed	West of Sao vicente
<b>Boraginaceae</b>	<b>Forget-me-not Family</b>	
<i>Echium plantagineum</i>	Purple Viper's Bugloss	Ponta de Sao Lourence
<i>Echium candicans</i> *	Pride of Madeira	Ribeiro Frio
<i>Echium nervosum</i> *	Small Pride of Madeira	Ponta de Sao Lourence
<i>Myosotis secunda</i>	Creeping Forget-me-not	Encumeada
<b>Brassicaceae</b>	<b>Cabbage Family</b>	
<i>Arabis alpina subsp.caucasica</i>	Rockcross	Pico Ruivo
<i>Matthiola maderensis</i> *	Madeira Sea-stock	Ribeiro Frio
<i>Rapistrum rugosum subsp. orientale</i>	Bastard Cabbage	Ponta de Sao Lourence
<i>Sinapidendron gymnocalyx</i> *	Naked-calyx Rock-cress	West of Sao Vicente
<i>Teesdalia nudicaulis</i>	Shepherd's Cress	Pico Ruivo
<b>Cactaceae</b>	<b>Cactus Family</b>	
<i>Opuntia tuna</i>	Elephant-ear Prickly Pear	Throughout
<b>Campanulaceae</b>	<b>Bellflower Family</b>	
<i>Musschia wollastonii</i> *	Wollaston's Musschia	Ribeiro Frio
<b>Caprifoliaceae</b>	<b>Honeysuckle Family</b>	
<i>Sambucus lanceolata</i> *	Madeiran Elder	Ribeiro Frio - Portela
<b>Caryophyllaceae</b>	<b>Pink Family</b>	
<i>Cerastium fontanum</i>	Common Mouse-ear	Pico Arierio
<i>Cerastium glomeratum</i>	Sticky Mouse-ear	Ribeiro Frio
<i>Silene uniflora</i>	Sea Campion	Ponta de Sao Lourence
<b>Chenopodiaceae</b>	<b>Goose-foot Family</b>	
<i>Suaeda vera</i>	Shrubby Sea-blite	Ponta de Sao Lourence
<b>Cistaceae</b>	<b>Rock-rose Family</b>	
<i>Cistus psilosepalus</i>	A Cistus	Roadside
<b>Clethraceae</b>	<b>Lily-of-the-Valley Tree Family</b>	
<i>Clethra arborea</i> *	Lily-of-the-Valley Tree	Ribeiro Frio - Balcoes

Scientific name	Common name	Location
<b>Clusiaceae</b>		
<i>Hypericum canariensis</i> *	A St.John's Wort	Ribeiro Frio - Balcoes
<i>Hypericum grandiflorum</i> *	A St.John's Wort	Ribeiro Frio - Portela
<i>Hypericum humifusum</i>	Trailing St.John's Wort	Pico Ruivo
<i>Hypericum linarifolium</i>	Flax-leaved St.John's Wort	Pico Ruivo
<i>Hypericum perforatum</i>	Perforate St.John's Wort	West of Sao Vicente
<b>Convolvulaceae</b>		
<i>Convolvulus althaeoides</i>	Mallow-leaved Bindweed	Ponta de Sao Lourence
<i>Convolvulus cneorum</i>		A roadside
<i>Ipomoea purpurea</i>	Morning Glory	Funchal -Roadsides
<b>Crassulaceae</b>		
<i>Aeonium glandulosum</i> *	Disc Houseleek	Cancela Garajau
<i>Aeonium glutinosum</i> *	Viscid Houseleek	Cancela Garajau
<i>Aichryson divaricatum</i> *	Madeira Stonecrop	Ribeiro Frio - Balcoes
<i>Aichryson villosum</i> *	Downy Stonecrop	Ribeiro Frio - Balcoes
<i>Sedum farinosum</i> *	Mealy Stonecrop	Pico Ruivo
<i>Umbilicus rupestris</i>	Navelwort	Pico Ruivo
<b>Ericaceae</b>		
<i>Erica maderensis</i>	Madeiran Heather	Pico Ruivo
<i>Erica arborea</i>	Tree Heather	Pico A
<i>Erica scorparia</i> subsp. <i>maderinicola</i>	Besom Heath	Ribeiro Frio - Balcoes
<i>Rhododendron ponticum</i>	Rhododendron	Ribeiro Frio
<i>Vaccinium padifolium</i>	Madeira Bilberry	Ribeiro Frio - Balcoes
<b>Euphorbiaceae</b>		
<i>Ricinus communis</i>	Castor Oil Plant	Funchal - Roadsides
<i>Euphorbia mellifera</i> *	Melliferous Spurge	Encumeada
<i>Euphorbia piscatoria</i> *	Smooth Spear-leaved Spurge	Cancela Garajau
<i>Euphorbia peplus</i>	Petty Spurge	Ponta de Sao Lourence
<b>Fabaceae</b>		
<i>Bitumaria bituminosa</i>	Pitch Trefoil	Ponta de Sao Lourence
<i>Cytisus scorparius</i>	Broom	Roadsides / Pico Ruivo
<i>Lotus angustissimus</i>	Slender Bird's-foot Trefoil	
<i>Lotus glaucus</i> *	Madeiran Bird's-foot Trefoil	Porto da Cruz
<i>Lotus parviflorus</i>	A Bird's-foot Trefoil	
<i>Melilotus indicus</i>	Small Melilot	Ponta de Sao Lourence
<i>Ornithopus perpusillus</i>	Common Bird's-foot	Pico Ruivo
<i>Scorparius muricatus</i>	Scorpion Vetch	Ponta de Sao Lourence
<i>Teline maderensis</i> *	Shrub Trefoil	Ribeiro Frio - Portela
<i>Trifolium campestre</i>	Hop Trefoil	Encumeada
<i>Trifolium repens</i>	White Clover	Roadside
<i>Trifolium stellatum</i>	Starry Clover	Funchal
<i>Ulex europaeus</i>	Gorse	Widespread
<i>Vicia sativa</i> subsp. <i>segetalis</i>	Common Vetch	Ribeiro Frio - Balcoes
<b>Fagaceae</b>		
<i>Quercus robur</i>	Pedunculate Oak	Ribeiro Frio - Balcoes
<i>Castanea sativa</i>	Sweet Chestnut	Ribeiro Frio - Balcoes

<b>Scientific name</b>	<b>Common name</b>	<b>Location</b>
<b>Frankeniaceae</b> <i>Frankenia laevis</i>	<b>Sea Heath Family</b> Sea Heath	Porto da Cruz
<b>Fumariaceae</b> <i>Fumaria capreolata</i> <i>Fumaria muralis</i> subsp. <i>boraei</i>	<b>Fumitory Family</b> White Ramping Fumitory Wall Fumitory	Ribeiro Frio - Balcoes
<b>Geraniaceae</b> <i>Geranium lucidum</i> <i>Geranium maderense</i> * <i>Geranium palmatum</i> * <i>Geranium purpureum</i> <i>Geranium robertianum</i>	<b>Geranium Family</b> Shining Crane's-bill Madeira Stork's-bill Anemone-leaved Stork's-bill Little Robin Herb Robert	Rabacal - Risco Botanic Garden Ribeiro Frio - Balcoes Ribeiro Frio - Balcoes Ribeiro Frio - Balcoes
<b>Globulariaceae</b> <i>Globularia salicina</i> *	<b>Globularia Family</b> A Globularia	Cancela Garajau
<b>Hydrangeaceae</b> <i>Hydrangea macrophylla</i>	<b>Mock-orange Family</b> Hydrangea	Ribeiro Frio - Portela
<b>Lamiaceae</b> <i>Bystropogon maderensis</i> * <i>Bystropogon punctatus</i> * <i>Cedronella canariensis</i> * <i>Clinopodium vulgare</i> <i>Prunella vulgaris</i> <i>Sideritis candicans</i> var. <i>candicans</i> * <i>Stachys oxymastrum</i> <i>Thymus caespititius</i>	<b>Dead-nettle Family</b> Bystropogon Bystropogon Canary Dragon Herb Wild Basil Self-heal Madeira Ironwort A Woundwort Mountain Tyme	Ribeiro Frio - Balcoes Rabacal - Risco Encumeada Pico Ruivo Ribeiro Frio - Balcoes Encumeada West of Sao Vicente Pico Ruivo
<b>Lauraceae</b> <i>Apollonias barbujana</i> <i>Ocotea foetens</i> * <i>Laurus azorica</i> <i>Persea indica</i>	<b>Bay Family</b> Canary Laurel Fetid Madeiran Laurel A Laurel Madeiran Mahogany	Funchal - Street Tree Ribeiro Frio - Balcoes Ribeiro Frio - Balcoes Ribeiro Frio
<b>Malvaceae</b> <i>Lavatera cretica</i> <i>Malva sylvestris</i>	<b>Mallow Family</b> Cretian Tree-mallow Common Mallow	Ponta de Sao Lourence Roadside - Funchal
<b>Mimosaceae</b> <i>Acacia longifolia</i> <i>Acacia mearnsii</i>	<b>Wattle Family</b> Sallow Wattle Black Wattle	Rabacal Cabo Girao - View point
<b>Myrtaceae</b> <i>Eucalyptus globulus</i>	<b>Myrtles &amp; Gum Family</b> Blue Gum	Widespread
<b>Nyctaginaceae</b> <i>Bougainvillea glabra</i>	<b>Bougainvillea Family</b> Bougainvillea	Funchal
<b>Oleaceae</b> <i>Olea europaea</i> var. <i>maderensis</i> <i>Picconia excelsa</i>	<b>Olive Family</b> Olive Picconia	Occasional South Coast Encumeada

Scientific name	Common name	Location
<b>Onagraceae</b>	<b>Willowherb Family</b>	
<i>Epilobium obscurum</i>	Long-fruited Willowherb	West of Sao Vicente
<i>Fuchsia magellanica</i>	Fuchsia	Ribeiro Frio - Portela
<i>Oenothera stricta</i>	Evening Primrose	Roadside
<b>Orobanchaceae</b>	<b>Broomrape Family</b>	
<i>Orobanche minor</i>	Lesser Broomrape	Pico Ruivo
<b>Oxalidaceae</b>	<b>Wood-sorrel Family</b>	
<i>Oxalis latifolia</i>	Garden Pink Sorrel	Funchal
<b>Papaveraceae</b>	<b>Poppy Family</b>	
<i>Chelidonium majus</i>	Greater Celandine	Ribeiro Frio
<i>Eschscholzia californica</i>	Californian Poppy	Funchal - Roadsides
<i>Papaver rhoeas</i>	Common Poppy	Cultivated Field
<i>Papaver somniferum</i>	Opium Poppy	Cultivated Field
<b>Plantaginaceae</b>	<b>Plantain Family</b>	
<i>Plantago coronopus</i>	Buck's-horn Plantain	Porto da Cruz
<i>Plantago lagopus</i>	Hare's-foot Plantain	Ponta de Sao Lourence
<i>Plantago lanceolata</i>	Ribwort Plantain	Ponta de Sao Lourence
<i>Plantago major</i>	Greater Plantain	Ponta de Sao Lourence
<b>Plumbaginaceae</b>	<b>Thrift Family</b>	
<i>Armeria maderensis</i>		Cancela Garajau
<b>Polygonaceae</b>	<b>Knotweed Family</b>	
<i>Persicaria capitata</i>	Pink Garden Knotgrass	Encumeada
<i>Polygonum maritimum</i>	Sea Knotgrass	Porto da Cruz
<i>Rumex acetosella</i>	Sheep-sorrel	Pico Ruivo
<i>Rumex maderensis</i> *	Madeiran Sorrel	Roadside
<i>Rumex obtusifolius</i>	Broad-leaved Dock	Ribeiro Frio - Balcoes
<i>Rumex pulcher</i>	Fiddle Dock	Ponta de Sao Lourence
<i>Rumex bucephalophorus</i> spp <i>canariensis</i>		Pico Ruivo
<b>Primulaceae</b>	<b>Primrose Family</b>	
<i>Anagallis arvensis</i> (Red)	Scarlet Pimpernel	Roadside
<i>Anagallis arvensis</i> (Blue)	Scarlet Pimpernel	Roadside
<i>Samolus vallerandi</i>	Brookweed	West of Sao Vicente
<b>Ranunculaceae</b>	<b>Buttercup Family</b>	
<i>Ranunculus cortusifolius</i> var. <i>minor</i> *	A Buttercup	Pico Ruivo
<i>Ranunculus cortusifolius</i> var. <i>major</i> *	A Buttercup	Ribeiro Frio - Balcoes
<i>Ranunculus repens</i>	Creeping Buttercup	Ribeiro Frio
<b>Resedaceae</b>	<b>Mignonette Family</b>	
<i>Reseda luteola</i>	Weld	Cancela Garajau
<b>Rosaceae</b>	<b>Rose Family</b>	
<i>Duchesnea indica</i>	Yellow-flowered Strawberry	Ribeiro Frio - Balcoes
<i>Fragaria vesca</i>	Wild Strawberry	Ribeiro Frio - Balcoes
<i>Prunus avium</i>	Wild Cherry	Encumeada

<b>Scientific name</b>	<b>Common name</b>	<b>Location</b>
<b>Rubiaceae</b>		
<i>Galium aparine</i>	Bedstraw Family Cleavers	Ribeiro Frio - Balcoes
<i>Galium productum</i>	Madeiran Bedstraw	Pico Ruivo
<i>Phyllis nobla</i> *	Bastard Hare's-ear	West of Sao Vicente
<i>Rubia agostinhoi</i>	Madeiran Madder	Ribeiro Frio - Portela
<i>Sherardia arvensis</i>	Field Madder	Pico Ruivo
<b>Salicaceae</b>		
<i>Salix canariensis</i> *	Willow Family Madeiran Willow	Encumeada
<b>Saxifragaceae</b>		
<i>Saxifraga maderensis var. maderensis</i> *	Saxifrage Family Madeira Saxifrage	Cho de Cancela
<b>Scrophulariaceae</b>		
<i>Cymbalaria muralis</i>	Figwort Family Ivy-leaved Toadflax	Pe do Passo - Lava Tube Gardens
<i>Digitalis purpurea</i>	Foxglove	Ribeiro Frio - Balcoes
<i>Odontites holliana</i>	-	Pico Ruivo
<i>Scrophularia hirta</i> *	A Figwort	West of Sao Vicente
<i>Scrophularia racemosa</i> *	A Figwort	Ribeiro Frio - Balcoes
<i>Sibthorpia peregrina</i> *	Madeira Moneywort	Ribeiro Frio - Balcoes
<b>Solanaceae</b>		
<i>Lycopersicon esculentum</i>	Nightshade Family Tomato	Ponta de Sao Lourence
<i>Nicotiana glauca</i>	Shrub Tobacco	Ponta de Sao Lourence
<i>Solanum sodomium</i>	Sodams Apple	Ponta de Sao Lourence
<i>Solanum nigrum</i>	Black Nightshade	Ponta de Sao Lourence
<b>Tamaricaceae</b>		
<i>Tamarix gallica</i>	Tamarix Family Tamarisk	Porto da Cruz
<b>Tropaeolaceae</b>		
<i>Tropaeolum majus</i>	Nasturtiums Nasturtium	Ribeiro Frio
<b>Urticaceae</b>		
<i>Parietaria judaica</i>	Nettle Family Pelitory -of-the-wall	Funchal
<b>Valerianaceae</b>		
<i>Centranthus rubra</i>	Valerian Family Red Valerian	Funchal
<i>Centranthus calcitrapae subsp. calcitrapae</i>	Small Valerian	Pico Ruivo
<b>Violaceae</b>		
<i>Viola paradoxa</i> *	Violet Family Madeiran Yellow Violet	Pico Ruivo
<i>Viola riviniana</i>	Common Wood Violet	Ribeiro Frio - Balcoes
<b>Liliidae (Monocotyledons)</b>		
<b>Agavaceae</b>		
<i>Agave attenuata</i>	Century Plant Family	Funchal - Roadsides
<i>Agave americana</i>	Century Plant	Roadsides
<i>Dracaena draco</i> *	Dragon Tree	Ribeira Brava
<b>Araceae</b>		
<i>Zantedeschia aethiopica</i>	Arum Family Calla Lily	Encumeada

Scientific name	Common name	Location
<b>Iridaceae</b>		
<i>Crocsmia x crocosmiflora</i>	Iris Family Montbretia	Ribeiro Frio - Balcoes
<i>Watsonia borbonica</i>	Bugle Lily	Encumeada
<b>Liliaceae</b>		
<i>Ruscus streptophyllus</i> *	Lily Family A Butcher's-broom	Ribeiro Frio - Balcoes
<i>Semele androgyna</i> *	Climbing Butcher's-broom	Ribeiro Frio - Portela
<b>Orchidaceae</b>		
<i>Dactylorhiza foliosa</i> *	Orchid Family Madeira Marsh Orchid	Ribeiro Frio
<i>Orchis scopulorum</i>	Rock Orchid	Rabacal -
<b>Poaceae</b>		
<i>Aira praecox</i>	Grass Family Early Hair-grass	Pico Ruivo
<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	Pico Ruivo
<i>Arundo donax</i>	Giant Reed	Funchal - South Coast
<i>Avena sterilis</i>	Winter Wild-Oat	Ponta de Sao Lourence
<i>Briza maxima</i>	Large Quaking-grass	Roadsides
<i>Briza minor</i>	Annual Quaking-grass	Roadsides
<i>Hordium murinum</i>	Wall Barley	Ponta de Sao Lourence
<i>Lagurus ovatus</i>	Hare's-tail Grass	Pico Ruivo
<i>Setaria verticillata</i>	Rough Bristle-grass	Funchal
<i>Stipa capensis</i>	Mediterranean Needle-grass	Ponta de Sao Lourence
<b>Lichens</b>		
<i>Xanthoria parietina</i>	Yellow/Orange Lichen	Sea Shore
<i>Lobaria pulmonaria</i>	Lungwort	Forests
<i>Usnea barbata</i>	Old Man's Beard	Forests

## Birds

Common Buzzard, <i>Buteo buteo</i>	Common Kestrel, <i>Falco tinnunculus</i>
Ruddy Turnstone, <i>Arenaria interpres</i>	Yellow-legged Gull, <i>Larus michahellis atlantis</i>
Common Tern, <i>Sterna hirundo</i>	Feral Pigeon / Rock Dove, <i>Columba livia</i>
Pallid Swift, <i>Apus pallidus brehmorum</i>	Plain Swift, <i>Apus unicolor</i>
Common House Martin, <i>Delichon urbicum</i>	Berthelot's Pipit, <i>Anthus berthelotii madeirensis</i>
Grey Wagtail, <i>Motacilla cinerea schmitzi</i>	European Robin, <i>Erithacus rubecula</i>
Common Blackbird, <i>Turdus merula cabreræ</i>	Blackcap, <i>Sylvia atricapilla heineken</i>
Madeiran Firecrest, <i>Regulus madeirensis</i>	Spanish Sparrow, <i>Passer hispaniolensis</i>
Common Chaffinch, <i>Fringilla coelebs maderensis</i>	Common Linnet, <i>Carduelis cannabina nana</i>
European Goldfinch, <i>Carduelis carduelis</i>	European Greenfinch, <i>Chloris chloris</i>
Atlantic Canary, <i>Serinus canaria</i>	

## Butterflies

Common name	Scientific name	
	<b>Pieridae</b>	
Small White	<i>Pieris rapae</i>	Occasional
Clouded Yellow	<i>Colias crocea faillae</i>	Frequent in Montains. Variable Older specimens often whiter.
Madeiran Brimstone or	<i>Gonepteryx maderensis</i>	Pico Ruivo

## Cleopatra

Madeiran Small Copper

*Lycaena phlacas phlaeoides*

Pico Ruivo

Long-tailed Blue

*Lampides boeticus*

Botanic Garden

Monarch or Milkweed Butterfly

*Danaus plexippus*

Occasional, Gardens in Funchal and Cancela Garajan

European Red Admiral

*Vanessa atalanta*

Macaronesian Red Admiral

*Vanessa vulcania*

West of Sao Vicente

European Speckled Wood

*Pararge aegeria aegeria*

Botanic Gardens and Encumeada

Madeiran Speckled Wood

*Pararge xiphia*

Encumeada

Madeiran Grayling

*Hipparchia maderensis*

Pico Arieiro

## Moths

Hummingbird Hawkmoth

*Macroglossum stellatarum*

Pico Arieiro

## Other Invertebrates

A Locust spp?

Ponta de Sao Lourence

A Bush Cricket

*Deorticus albifrons*

Ponta de Sao Lourence

American Cockroach

*Periplanata americana*

Funchal

Bee

*Amigilla maderae*

Occasional

Bumble Bee

*Bombus maderensis*

Occasional

## Amphibians &amp; Reptiles

Madeiran Wall Lizard

*Lacerta (Teira) dugesii*

Widespread

Perez's Frog

*Rana perezi*

Ribeiro Frio and Botanic Gardens