

Madeira - The Floating Garden

Naturetrek Tour Report

1 - 8 June 2011



Echium candicans (Pride of Madeira)



Colias croceus (Clouded Yellow Butterfly)



Fringilla coelebs maderensis (Madeiran Chaffinch)



The 2011 Naturetrek Group

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Day 1

Wednesday 1st June

Weather: Fine & sunny at Gatwick. Overcast but warm, Funchal

Eight tour participants met Derrick the trip leader, at Gatwick Airport for the 13.50hrs flight to Funchal. On arrival we were met by the local agent's minibus and driver for the 30 minute transfer to our hotel. 'Residential Pina'. After leisurely finding our rooms and settling in, we met in the hotel cafe for refreshments and a light supper.

Day 2

Thursday 2nd June

Weather: Overcast during the morning, brightening later. Sunny above cloud at Pico Arieiro.

From Funchal we drove east to Cancela, where we made a brief stop to buy our picnic lunch. We then continued north and over the central ridge at Paso de Poiso and down to Ribeiro Frio (lit. 'Cold River'). The group walked the first of several Levadas that week, along Levada Balcoes. This was a gentle start to our Maderian experience and as we went we saw *Laurus azorica* (Azores Laurel), with its parasitic fungus *Laurobasidium laurii* (Madeiran Laurel Fungus), *Dactylorhiza foliosa* (Madeiran Orchid), *Geranium palmatum* (Anemone-leaved Crane's-bill), *Aichyrison divaricatum* (Madeiran Stonecrop) and the lichen *Usnea barbata* (Old Man's Beard) 'dripping' from every tree.

We made our way up to Pico do Arieiro (1,818 metres) the island's third highest peak. A short walk was taken among the rocks and pathways of the mountain where we were able to catch glimpses of Swifts darting among the peaks. Several Clouded Yellow Butterflies crossed our path and we photographed these as they settled on *Erysimum bicolor* (Madeiran Wallflower). 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 in all directions and which will take many years to regenerate. We stopped at a picnic site among some *Pinus pinaster* (Maritime Pine) for lunch and saw Blackcaps amongst the pines and Madeiran Wall Lizards sunning themselves on the warm rocks.

In the afternoon we returned to Ribeiro Frio to walk in the Levada Portela. Here we saw our first Firecrests. These charming little birds are very inquisitive and will investigate anyone they encounter. We also recorded *Selaginella denticulate* (Clubmoss), and *Zantedeschia aethiopica* (Calla Lily), a garden escapee, amongst some fine robust examples of *Umbilicus rupestris* (Navelwort).

Our final visit of the day was to a small public garden and trout farm where we saw *Musschia wollastonii* (Wollaston's Musschia), *Persea indica* (Madeiran Mahogany) and *Rhamnus glandulosa* a rare plant that is under threat in the wild. Along the roadsides in Ribeiro Frio are several fine examples of the Madeiran national flower, *Echium candicans* (Pride of Madeira). Before returning to Funchal and our hotel, we saw several Madeiran Chaffinches among the picnic tables of the bars and cafes of Ribeiro Frio. Dinner was taken at the excellent Restaurante dos Combatentes.

Day 3

Friday 3rd June

Weather: Fine, hot and sunny

Today we walked the well trodden path to Pico Ruivo, at 1,862 metres, the highest point on the island. After shopping for our picnic lunch at Cancela, we drove east to Machico, before turning north through the road tunnel system to Faial and Santana. Here we turned south-west, aiming for the base of the Pico Ruivo. The path is very well marked and we set off at a steady pace. Along the way we found *Ranunculus cortusifolius ssp. minor* (Large-leaved buttercup). This is an imposing sight on the relatively bare mountainsides with its bright yellow flowers. Other plants seen here included *Hypochaeris glabra* (Smooth Cat's-ear), *Myosotis arvensis* (Field Forget-me-not), and *Matthiola maderensis* (Madeiran Sea-Stock). Birds included Blackbird, Plain Swift, and Berthelot's Pipit. Near the summit, we stopped at the 'Refugio' for some well-earned refreshments, while some of the group completed the last section to the summit, which rewarded them with stunning panoramic views of the upper parts of the island. On our return to the car park, we set up our picnic under the canopy of the car park lodge. Here, Madeiran Lizards and Chaffinches were plentiful, as well as several butterflies settling on the thistles.

For our descent, we made our way to Santana and took some time to visit the *palheiros* (triangular thatched houses), traditionally used by local farmers as cow byres, before moving on to Porto da Cruz. Here, we added *Lanana camara* (Lantana) and *Metrosideros excelsa* (New Zealand Christmas tree), both exotic shrubs or small trees that do well on salt-laden coastal areas. Plain Swifts and Turnstones were seen in the area around the coast.

We also visited one of the few remaining Sugarcane 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. The final leg of the journey took us near Machico before turning west back to Funchal. Dinner was taken at the Restaurante O Arco.

To end the day, we joined the vast crowds of Madeirans celebrating the end of campaigning for the following day's general election. Tony Carreira, the well-known Portuguese singer/musician, gave a free concert in Funchal's main square. This was a festive occasion with a well-behaved and vocal crowd singing and dancing the night away.

Day 4

Saturday 4th June

Weather: Fine, hot and sunny

Today we again drove east to Cancela where we visited the supermarket before continuing towards the Ponta de Sao Louenco. The four kilometre walk out towards the point, gave us many opportunities to view the exceptional landscape on both north and south sides. The trail follows the line of the eastern-most peninsula of Madeira and is part of the Madeira National Park. Again, we saw Berthelot's Pipit, Kestrels catching lizards, Plain Swift and Yellow-legged Gulls. Plants included *Mesembryanthemum nodiflorum* and *M. crystallinum* (Ice plants) *Andrayala glandulosa subsp. glandulosa* (an Andrayala), *Cichorium intybus* (Chicory), *Echium nervosum* (Small Pride of Maderia), a single specimen of *Aeonium glandulosum* (Disc Houseleek) that we were to see many more of later that week, *Helichrysum devium* (Everlasting) and *Scolymus maculatus* (Spotted Golden Thistle). We also recorded the Field Cricket, *Gryllus bimaculatus* and numerous Clouded Yellow butterflies.

The trail ends at the Casa do Sardinha where an information centre and small shop are located. At this point we watched Canaries in the various grasses that predominate in this far end of the peninsula. A long range binocular search amongst the coastal rocks revealed a rare Madeiran Cave Whale blowing foam. We returned the four kilometres to our awaiting transport and made our way to a picnic site at Prainha for a rather late lunch.

After lunch we went to Garajau where the town's most prominent landmark stands. The huge statue of Cristo Rei was erected in 1927 and is similar to the larger and more famous statues in Lisbon and Rio de Janeiro, it stands with outstretched arms on a headland 200 metres above the sea. Here we saw *Achyranthes sicula*, *Opuntia tuna* (Prickly Pear), *Nicotiana glauca* (Shrub Tobacco) and our only sighting of *Musschia aurea* (Golden Musschia). We returned, a tired but happy group, to Residential Pina and decided to spend the evening on the hotel terrace with a light supper and a superb view of the fireworks display in the harbour.

Day 5

Sunday 5th June

Weather: Overcast with showers early on, becoming warm and sunny

Today we headed to the north of the island. Leaving Funchal, we drove west towards Ribeiro Brava where we purchased our picnic lunch. From here we passed through Serra de Agua and the long road tunnel under Encumeada to the cave complex a few kilometers short of Sao Vicente. The visit to the Grutas de Sao Vicente included a 30 minute guided tour of the lava-tube caves and the audiovisual displays, in the attached Centro do Volcanismo visitor centre, explain the Island's volcanic history, giving an insight into how and when the caves were formed. The complex is set in exceedingly well-tended gardens and we were able to see cultivated examples of *Myrica faya* (Wax Myrtle), *Erythrina crista-galli* (Cock's Comb Coral Tree), *Prunus laurocerasus* (Cherry Laurel) and *Tibouchina urvilleana* (Brazilian Spider Flower). The walkway under the road to the car park is similarly well-tended and planted. Here we found numerous examples of *Davallia canariensis* (Hare's Foot Fern), *Ficus pumila* (Creeping Fig), *Persicaria maculata* (Redshank) and *Cymbalaria muralis* (Ivy-leaved Toadflax).

Continuing north and then west after Sao Vicente, we walked on the now closed and redundant coast road where we encountered wonderful examples of *Aeonium glandulosum* (Disc Houseleek), *Crithmum maritimum* (Rock Samphire), *Helichrysum melaleucum* (White Everlasting) and the first and only example of a blue flowered *Anagallis arvensis* (Scarlet Pimpernel).

During a picnic lunch in an out-of-the-way picnic area we were entertained by the antics of several Madeiran Wall Lizards, perfectly willing to take whatever scraps fell their way. Here, in a small orchard, we found *Persea Americana* (Avocado). Continuing west for a few kilometers we came to Porto Moniz where we wandered amongst the bars and cafes that had sprung up between the natural rock pools on the seafront. In the less crowded places we were able to observe Common Terns diving into the sea. The long drive back to Funchal was uneventful. Dinner was taken at the Restaurante Riviera.

Day 6

Monday 6th June

Weather: Sunny and warm

Today the group was free to choose their own activities. None of the group was interested in the three hour boat trip to the Desertas Islands and we made our own leisurely way to the Botanical Gardens in Funchal. This lovely garden gave the opportunity to see some of the endemic plant species which we had not managed to find in a native situation. We also saw several Perez's Frogs in the water features.

Some of the group then visited the Jardim Orquidea, within walking distance of the Botanic Garden. Here we were able to see stunning displays of almost every genus of tropical orchid, in particular *Brassia* (Spider Orchids), *Cymbidium*, *Dendrobium* (Bamboo Orchid), *Miltoniopsis* (Pansy Orchid), *Odontoglossum*, *Paphiopedilum* (Slipper Orchid), *Phalaenopsis* (Moth Orchid) and *Vanda*.

The visit to the Monte Palace Tropical Garden was undertaken by most of the group and we saw a mishmash of gardening styles, none particularly complementary to the other. There was however an interesting collection of native plants next to one of the Oriental Gardens, which gave us opportunities to see *Ocotea foetens* (Stinklaurel), *Persea indica* (Madeiran Mahogany), *Apollonias barbujana* (Canary Laurel), *Clethra arborea* (Lily of the Valley Tree), *Picconia excelsa* (High Picconia), *Ilex perado* (Madeiran Holly), *Erica platycodon ssp. maderincola* (Besom Heath) and *Juniperus cedrus* (Madeiran Juniper). The collection of several hundred Cycads was particularly impressive and a small collection of *Cymbidium* orchid cultivars was well displayed.

The 15 minute, 3.2 kilometer cable car journey from Monte to Funchal old town is one of the best panoramic views of Funchal and the most accessible transport directly into town.

Dinner was taken on board the 'Vagrant'. This is the ex-Beatles yacht now turned bar/restaurant in downtown Funchal. The Beatles bought it in 1966 and used it to get away from all the craziness of super-stardom. The story goes that after Apple sold it in the early 70s, it remained in Morocco, and was finally wrecked by a storm in the Canaries. The Vagrant was built in 1941 at the "Bath of Iron Works" shipyard in Maine, USA for the Multimillionaire Horace P. Vanderbilt. It was considered one of the most luxurious yachts in the world at the time (its portholes were painted in gold). However, it was its acquisition by "The Beatles" in 1966 that gave the "Vagrant" worldwide notoriety. It had other famous owners: the singer Donovan and the Greek magnate Goulandris. At the end of 1977 the "Vagrant" ran aground on the island of Gran Canaria on the "Alcanavaneras" beach where it stayed for sometime. It was bought by the Madeiran João Bartolomeu de Faria with the intention of repairing and sailing it again, but in August 1982 it was brought to where it stands today. After extended refurbishment it became one of the main tourist attractions in Funchal - as a bar and restaurant. The food is good, the service exceptional and the atmosphere wonderful with Beatles songs in the background throughout.

Day 7

Tuesday 7th June

Weather: Overcast with drizzle, southern aspects somewhat brighter.

Our last full day was spent in the central highlands searching for the sun. Turning off the motorway at Campasario we stopped to see the last Dragon Tree (*Dracena draco*) still native on the island. Through binoculars we were able to see two trees; one now completely dead, the other with just a small amount of foliage on one higher branch. The likelihood of this tree surviving is sadly decreasing. Grey Wagtail and Goldfinch were both seen in the small park area near where we had parked.

Travelling west towards Ribeiro Brava, we made a short stop for picnic provisions before travelling north via Serra de Agua where we walked part of a Levada until a closure caused by a rock fall forced us to turn back. *Ipomoea purpurea* (Morning Glory), *Aichryson villosum* (Downy Stonecrop), *Vaccinium padifolium* (Madeiran Bilberry), *Euphorbia mellifera* (Melliferous Spurge) and *Orchis scopulorum* (Rock Orchid) were all seen. Birds included several Firecrests, inquisitively watching us, Chaffinch, Blackbirds and a Linnet.

From here we headed north for a couple of kilometers to Parque Forestal do Chao dos Louros. One of the Island's rarer trees occurs here, *Rhamnus glandulosa* (Madeiran Buckthorn). We also saw some fine examples of *Laurus azorica* (Laurel), the fungus *Laurobasidium laurii* (Madeiran Laurel Fungus) and the fern *Davallia canariensis* (Hare's Foot Fern). Chaffinches were abundant here, as were Blackbird.

We retraced our steps to a southern aspect of the island for our picnic lunch, where we saw the devastation caused by *Bursaphelenchus xylophilus* (pine wood nematode or pine wilt nematode)(PWN) that infects *Pinus pinaster* (Maritime Pine) and causes pine wilt and ultimately death. The picnic site was planted with several *Juniperus cedrus* (Madeiran Juniper) and amongst the 'weeds' below we could find *Epilobium tetragonum* (Square-stemmed Willowherb) and *Misopates orontium* (Lesser Snapdragon).

After completing our picnic, we then headed west up to the Paul da Serra and on to Rabacal. The weather was deteriorating rapidly. In the interests of safety and the comfort of the group we decided to miss this part of the trip. Instead we retreated to the Levada Norte, where we walked in sunshine and saw many previously unseen plants; *Vinca major* (Greater Periwinkle), *Hedera helix ssp. canariensis* (Canary Island Ivy), *Crassula multicava*, *Linum strictum* (Upright Yellow Flax), *Oxalis pes-caprae* (Bermuda Buttercup), *Centranthus rubra* (Red Valerian) and *Hedychium gardinerianum* (Yellow Ginger Lily). The Firecrests were as lively as ever and Blackcaps, Canaries and Blackbird were all seen.

Our penultimate stop of the trip was to a small lagoon where many sea birds could be seen. Mallard, Muscovy Duck, Little Egret, Grey Heron, Coot, Yellow-legged Gull, Lesser Black-backed Gull and a Black-tailed Godwit in non-breeding plumage were all seen. *Tamarix gallica* (Tamarisk) are planted around this area and a single specimen of *Colocasia esculenta* (Taro) was found amongst them.

On our way back to Funchal, we made a short stop at the spectacular sea cliff of Cabo Gerao, which at 580 metres high, is the highest sea cliff in Europe. Here we saw *Acacia melanoxylon* (Australian Blackwood) and *Eucalyptus globulus* (Blue Gum). Swifts were seen darting through the trees on their circuits to catch insects. Our final dinner of the tour was taken at the Restaurante Combatentes.

Day 8

Wednesday 8th June

Weather: Bright, warm & sunny at Funchal. Changeable (sun/rain), Gatwick

We departed the Residencial Pina at 9.30am and made the drive to the airport, arriving at 10.00am for our flight home. We landed safely at Gatwick at 3.15pm.

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Species Lists

Plants

Scientific name	Common name	Location
PTERIDOPHYTES	FERNS & ALLIES	
Selaginellaceae	Lesser Clubmoss Family	
<i>Selaginella denticulata</i>	A Clubmoss	Ribeiro Frio - Levada Portela
<i>Selaginella kraussiana</i>	Krauss's Spikemoss	Ribeiro Frio - Levada Balcoes
Adiantaceae	Maidenhair Fern Family	
<i>Adiantum capillus-veneris</i>	Maidenhair Fern	Ribeiro Frio - Levada Portela
<i>Adiantum raddianum</i>	A Maidenhair Fern	Funchal
Aspleniaceae	Spleenwort Family	
<i>Asplenium monanthes</i>	A Spleenwort	Ribeiro Frio - Levada Balcoes
<i>Asplenium obovatum ssp. lanceolatum</i>	Lanceolate Spleenwort	Ribeiro Frio - Levada Portela
<i>Asplenium onopteris</i>	Acute-leaved Spleenwort	Ribeiro Frio - Levada Portela
Blechnaceae	Hard Fern Family	
<i>Blechnum spicant</i>	Hard Fern	Ribeiro Frio - Levada Balcoes
Davalliaceae	Hare's-foot Fern Family	
<i>Davallia canariensis</i>	Hare's-foot Fern	Parque Florestal do Chao dos Louros
Dennstaedtiaceae	Bracken Family	
<i>Pteridium aquilinum</i>	Bracken	Throughout
Dryopteridaceae	Buckler Fern Family	
<i>Dryopteris affinis subsp. affinis</i>	Scaly Male Fern	Ribeiro Frio - Levada Portela
<i>Dryopteris aitoniana*</i>	A Buckler Fern	Ribeiro Frio - Levada Balcoes
<i>Dryopteris maderensis*</i>	Madeiran Buckler Fern	Ribeiro Frio - Levada Balcoes
<i>Polystichum falcinellum*</i>	A Shield Fern	Ribeiro Frio - Levada Balcoes
Hymenophyllaceae	Filmy Fern Family	
<i>Hymenophyllum tunbrigense</i>	Tunbridge Filmy Fern	Ribeiro Frio - Levada Portela
Polypodiaceae	Polypody Family	
<i>Polypodium macaronesicum</i>	Macaronesian Polypody	Ribeiro Frio - Levada Balcoes
Woodsiaceae	Lady Fern Family	
<i>Athyrium filix-femina</i>	Lady Fern	Ribeiro Frio - Levada Balcoes
PINOPSIDA (GYMNOSPERMS)	CONIFERS	
Cupressaceae	Juniper Family	
<i>Juniperus cedrus</i>	Prickly Juniper	above Serra de Agua
<i>Juniperus phoenicea</i>	A Juniper	Pico Ruivo
Pinaceae	Pine Family	
<i>Pinus pinaster</i>	Maritime Pine	above Serra de Agua
<i>Pseudotsuga menziesii</i>	Douglas Fir	Paso de Poiso

Scientific name	Common name	Location
MAGNOLIOPSIDA (ANGIOSPERMS)	FLOWERING PLANTS	
Magnoliidae (Dicotyledons)		
Acanthaceae	Bear's-breech Family	
<i>Acanthus mollis</i>	Bear's-breech	Ribeiro Frio
Aceraceae	Maple Family	
<i>Acer pseudoplatanus</i>	Sycamore	Ribeiro Frio - Levada Balcoes
Aizoaceae	Dewplant Family	
<i>Aptenia cordifolia</i>	Baby Sun Rose	Machico
<i>Aizoon canariensis</i>	Aizoon	Ponta de Sao Lourenco
<i>Mesembryanthemum nodiflorum</i>	An Ice-plant	Ponta de Sao Lourenco
<i>Mesembryanthemum crystallinum</i>	Common Ice-plant	Ponta de Sao Lourenco
<i>Carpobrotus edulis</i>	Yellow Hottentot Fig	Porto da Cruz
Amaranthaceae	Pigweed Family	
<i>Achyranthes sicula</i>	-	Garajau
Apiaceae	Carrot Family	
<i>Foeniculum vulgare</i>	Fennel	Ribeiro Frio - Levada Balcoes
<i>Melanoselinum decipiens*</i>	Black Parsley	Ribeiro Frio - Levada Balcoes
<i>Crithmum maritimum</i>	Rock Samphire	Nr. Sao Vicente
Apocynaceae	Perriwinkle Family	
<i>Vinca major</i>	Greater Perriwinkle	Quinta Grande - Levada Norte
Aquifoliaceae	Holly Family	
<i>Illex perado subsp. perado</i>	Madeira Holly	Monte Palace Tropical Gardens
Araliaceae	Ivy Family	
<i>Hedera helix subsp. canariensis</i>	Ivy	Quinta Grande - Levada Norte
Asteraceae	Daisy Family	
<i>Ageratina adenophora</i>	White Eupatorium	Ribeiro Frio - Levada Balcoes
<i>Andryala glandulosa subsp. glandulosa</i>	Andryala	Ponta de Sao Lourenco
<i>Argyranthemum pinnatifidum ssp.pinnatifidum*</i>	Argyranthemum	Ribeiro Frio - Roadsides
<i>Cichorium intybus</i>	Chicory	Ponta de Sao Lourenco
<i>Cynara cardunculus</i>	Cardoon	Ponta de Sao Lourenco
<i>Erigeron karvinskianus</i>	Mexican Fleabane	Ribeiro Frio - Levada Balcoes
<i>Helichrysum melaleucum*</i>	White Everlasting	Nr. Sao Vicente
<i>Hypochaeris glabra</i>	Smooth Cat's-ear	Pico Ruivo
<i>Lapsana communis</i>	Nipplewort	Ribeiro Frio - Levada Portela
<i>Pericaulis aurita*</i>	Madeira Groundsel	Ribeiro Frio - Levada Portela
<i>Scolymus maculatus</i>	Spotted Golden Thistle	Ponta de Sao Lourenco
<i>Senecio vulgaris</i>	Groundsel	Ribeiro Frio - Levada Portela
<i>Sonchus fruticosus*</i>	Shrubby Sow Thistle	Ribeiro Frio - Levada Portela
<i>Taraxacum officinale agg.</i>	Dandelion	Ribeiro Frio - Levada Portela
<i>Tolpis succulenta*</i>	Hawkweed	Ponta de Sao Lourenco

Scientific name	Common name	Location
Boraginaceae	Forget-me-not Family	
<i>Echium plantagineum</i>	Purple Viper's Bugloss	Ponta de Sao Lourenco
<i>Echium candicans</i> *	Pride of Madeira	Throughout - Frequent on roadsides
<i>Echium nervosum</i> *	Small Pride of Madeira	Ponta de Sao Lourenco
<i>Myosotis arvensis</i>	Field Forget-me-not	Pico Ruivo
Brassicaceae	Cabbage Family	
<i>Cardamine hirsuta</i>	Hairy Bittercress	Nr. Sao Vicente
<i>Erysimum bicolor</i> *	Madeiran Mountain Stock	Pico Arieiro
<i>Matthiola maderensis</i> *	Madeira Sea-stock	Ponta de Sao Lourenco
Cactaceae	Cactus Family	
<i>Opuntia tuna</i>	Elephant-ear Prickly Pear	Garajau - Frequent Throughout
Campanulaceae	Bellflower Family	
<i>Campanula erinus</i>	Annual Bellflower	
<i>Musschia aurea</i> *	Golden Musschia	Garajau
<i>Musschia wollastonii</i> *	Wollaston's Musschia	Ribeiro Frio
Caryophyllaceae	Pink Family	
<i>Petrorhagia nanteuillii</i>	Childing Pink	Ponta de Sao Lourenco
<i>Silene gallica</i>	Small-flowered Catchfly	Ribeiro Frio - Levada Balcoes
<i>Stellaria media</i>	Chickweed	Machico
<i>Stellaria uliginosa</i>	Bog Stitchwort	Santana
Chenopodiaceae	Goose-foot Family	
<i>Suaeda vera</i>	Shrubby Sea-blite	Ponta de Sao Lourenco
Clethraceae	Lily-of-the-Valley Tree Family	
<i>Clethra arborea</i> *	Lily-of-the-Valley Tree	Parque Florestal do Chao dos Louros
Convolvulaceae	Bindweed Family	
<i>Convolvulus althaeoides</i>	Mallow-leaved Bindweed	Ponta de Sao Lourenco
<i>Ipomoea purpurea</i>	Morning Glory	Quinta Grande - Levada Norte
Crassulaceae	Stonecrop Family	
<i>Aeonium glandulosum</i> *	Disc Houseleek	Ponta de Sao Lourenco also Nr. Ponta do Sol
<i>Aeonium glutinosum</i> *	Viscid Houseleek	Garajau
<i>Aichryson divaricatum</i> *	Madeira Stonecrop	Ribeiro Frio - Levada Balcoes
<i>Aichryson villosum</i> *	Downy Stonecrop	Quinta Grande - Levada Norte
<i>Crassula multicava</i>	Crassula	Quinta Grande - Levada Norte
<i>Sedum farinosum</i> *	Mealy Stonecrop	Quinta Grande - Levada Norte
<i>Umbilicus rupestris</i>	Navelwort	Ribeiro Frio - Levada Balcoes
Ericaceae	Heath Family	
<i>Erica arborea</i>	Tree Heather	Ribeiro Frio - Levada Balcoes
<i>Rhododendron ponticum</i>	Rhododendron	Ribeiro Frio
<i>Vaccinium padifolium</i>	Madeira Bilberry	Quinta Grande - Levada Norte
Euphorbiaceae	Spurge Family	
<i>Ricinus communis</i>	Castor Oil Plant	Funchal - Waste Ground

Scientific name	Common name	Location
<i>Euphorbia mellifera</i> *	Melliferous Spurge	Quinta Grande - Levada Norte
<i>Euphorbia ingens</i>	-	Funchal
Fabaceae	Pea Family	
<i>Bitumaria bituminosa</i>	Pitch Trefoil	Frequent - Throughout
<i>Cytisus scorparius</i>	Broom	Frequent - Throughout
<i>Lathyrus cicera</i>	A Pea	Frequent - Throughout
<i>Lotus glaucus</i> *	Madeiran Bird's-foot Trefoil	Ponta de Sao Lourenco
<i>Lotus parviflorus</i>	A Bird's-foot Trefoil	Pico Ruivo
<i>Melilotus indicus</i>	Small Melilot	Ponta de Sao Lourenco
<i>Trifolium glomeratum</i>	Clustered Clover	Pico Ruivo
<i>Trifolium pratense</i>	Red Clover	Pico Ruivo
<i>Trifolium repens</i>	White Clover	Pico Ruivo
<i>Ulex europaeus</i>	Gorse	Santana
<i>Vicia capreolata</i> *	A Vetch	Ribeiro Frio - Levada Balcoes
Fagaceae	Beech Family	
<i>Quercus robur</i>	Pedunculate Oak	Ribeiro Frio - Levada Balcoes
<i>Castanea sativa</i>	Sweet Chestnut	Ribeiro Frio - Levada Balcoes
Fumariaceae	Fumitory Family	
<i>Fumaria capreolata</i>	White Ramping Fumitory	Ribeiro Frio - Levada Balcoes
<i>Fumaria parviflora</i>	Small-flowered Fumitory	Ribeiro Frio - Levada Balcoes
Geraniaceae	Geranium Family	
<i>Erodium botrys</i>	A Stork's-bill	Parque Florestal do Chao dos Louros
<i>Erodium cicutarium</i>	Common Stork's-bill	Pico Ruivo
<i>Geranium maderense</i> *	Madeira Stork's-bill	Botanical Gardens - Cultivated
<i>Geranium palmatum</i> *	Anemone-leaved Stork's-bill	Ribeiro Frio - Levada Balcoes
<i>Geranium robertianum</i>	Herb Robert	Ribeiro Frio - Levada Balcoes
<i>Geranium rubescens</i> *	A Geranium	Ribeiro Frio - Levada Balcoes
Hydrangeaceae	Mock-orange Family	
<i>Hydrangea macrophylla</i>	Hydrangea	Ribeiro Frio - Roadsides
Lamiaceae	Dead-nettle Family	
<i>Prunella vulgaris</i>	Self-heal	Pico Ruivo
<i>Stachys oxymastrum</i>	A Woundwort	Ponta de Sao Lourenco
Lauraceae	Bay Family	
<i>Apollonias barbujana</i>	Canary Laurel	Monte Palace Tropical Gardens
<i>Ocotea foetens</i> *	Fetid Madeiran Laurel	Monte Palace Tropical Gardens
<i>Laurus azorica</i>	A Laurel	Ribeiro Frio - Levada Balcoes
<i>Persea indica</i>	Madeiran Mahogany	Ribeiro Frio
<i>Persea americana</i>	Avocado	Machico
Linaceae	Flax Family	
<i>Linum strictum</i>	Upright Yellow Flax	Quinta Grande - Levada Norte
Malvaceae	Mallow Family	
<i>Lavatera cretica</i>	Cretian Tree-mallow	Ponta de Sao Lourenco

Scientific name	Common name	Location
Mimosaceae <i>Acacia melanoxylon</i>	Wattle Family Australian Blackwood	Viewpoint - Cabo Girao
Moraceae <i>Ficus carica</i> <i>Ficus pumila</i>	Fig Family Fig Creeping Fig	Santana Grutas de - Sao Vicente
Myrtaceae <i>Eucalyptus globulus</i> <i>Leptospermum scoparium</i> <i>Myrica faya</i>	Myrtles & Gum Family Blue Gum New Zealand Tea Tree Wax Myrtle	Viewpoint - Cabo Girao Ribeiro Frio Grutas de Sao Vicente
Nyctaginaceae <i>Bougainvillea glabra</i>	Bougainvillea Family Bougainvillea	Frequent - Throughout
Oleaceae <i>Olea europaea var. maderensis</i>	Olive Family Olive	Monte Palace Tropical Gardens
Onagraceae <i>Epilobium tetragonum</i> <i>Fuchsia magellanica</i>	Willowherb Family Square-stemmed Willowherb Fuchsia	above Serra de Agua Ribeiro Frio
Orobanchaceae <i>Orobanche minor</i>	Broomrape Family Lesser Broomrape	Ponta de Sao Lourenco
Oxalidaceae <i>Oxalis pes-caprae</i>	Wood-sorrel Family Bermuda Buttercup	Quinta Grande - Levada Norte
Papaveraceae <i>Chelidonium majus</i> <i>Eschscholzia californica</i> <i>Papaver rhoeas</i>	Poppy Family Greater Celandine Californian Poppy Common Poppy	Ribeiro Frio - Levada Balcoes Funchal - Roadsides Machico
Plantaginaceae <i>Plantago coronopus</i> <i>Plantago lanceolata</i> <i>Plantago major</i>	Plantain Family Buck's-horn Plantain Ribwort Plantain Greater Plantain	Ponta de Sao Lourenco Ribeiro Frio - Levada Balcoes Ribeiro Frio - Levada Balcoes
Plumbaginaceae <i>Limonium ovalifolium</i>	Thrift Family A Sea Lavender	Botanical Gardens - Cultivated
Polygonaceae <i>Persicaria maculata</i>	Knotweed Family Redshank	Grutas de Sao Vicente
Primulaceae <i>Anagallis arvensis (Red)</i> <i>Anagallis arvensis (Blue)</i>	Primrose Family Scarlet Pimpernel Scarlet Pimpernel	Ribeiro Frio - Levada Balcoes Nr. Sao Vicente
Ranunculaceae <i>Ranunculus cortusifolius var. minor*</i> <i>Ranunculus repens</i>	Buttercup Family A Buttercup Creeping Buttercup	Pico Ruivo Ribeiro Frio - Levada Balcoes

Scientific name	Common name	Location
Rosaceae	Rose Family	
<i>Fragaria vesca</i>	Wild Strawberry	Ribeiro Frio - Levada Balcoes
<i>Prunus avium</i>	Wild Cherry	Ribeiro Frio - Levada Balcoes
<i>Prunus laurocerasus</i>	Cherry Laurel	Grutas de Sao Vicente
<i>Rubus grandiflorus*</i>	A Bramble	Frequent - Throughout
<i>Sorbus maderensis</i>	Madeiran White Beam	Pico Arieiro (Fire Damaged)
Rubiaceae	Bedstraw Family	
<i>Galium aparine</i>	Cleavers	Ribeiro Frio - Levada Balcoes
Scrophulariaceae	Figwort Family	
<i>Cymbalaria muralis</i>	Ivy-leaved Toadflax	Grutas de Sao Vicente
<i>Digitalis purpurea</i>	Foxglove	Ribeiro Frio - Levada Balcoes
<i>Misopates orontium</i>	Lesser Snapdragon	above Serra de Agua
<i>Scrophularia racemosa*</i>	A Figwort	Ribeiro Frio - Levada Balcoes
<i>Sibthorpia peregrina*</i>	Madeira Moneywort	Ribeiro Frio - Levada Balcoes
<i>Veronica persica</i>	Common Field Speedwell	Ribeiro Frio - Levada Balcoes
Solanaceae	Nightshade Family	
<i>Lycopersicon esculentum</i>	Tomato	Funchal
<i>Nicotiana glauca</i>	Shrub Tobacco	Viewpoint - Cabo Girao
<i>Solanum linnaeanum</i>	-	Ponta de Sao Lourenco
<i>Solanum nigrum</i>	Black Nightshade	Ribeiro Frio - Levada Balcoes
Tamaricaceae	Tamarix Family	
<i>Tamarix gallica</i>	Tamarisk	Machico
Tropaeolaceae	Nasturtiums	
<i>Tropaeolum majus</i>	Nasturtium	Ribeiro Frio
Valerianaceae	Valerian Family	
<i>Centranthus rubra</i>	Red Valerian	Quinta Grande - Levada Norte
<i>Centranthus calcitrapae subsp. calcitrapae</i>	Small Valerian	Pico Ruivo
Verbenaceae	Vervain Family	
<i>Lantana camera</i>	Lantana	Porto do Cruz
Violaceae	Violet Family	
<i>Viola riviniana</i>	Common Wood Violet	Ribeiro Frio - Levada Balcoes
Liliidae (Monocotyledons)		
Agavaceae	Century Plant Family	
<i>Agave americana</i>	Century Plant	Ponta de Sao Lourenco
<i>Agave attenuata</i>	Swan-necked Agave	Nr. Funchal Airport
<i>Dracaena draco*</i>	Dragon Tree	Campasnario
Araceae	Arum Family	
<i>Zantedeschia aethiopica</i>	Calla Lily	Ribeiro Frio - Levada Portela
Cannaceae	Canna Lily Family	

Scientific name	Common name	Location
<i>Canna indica</i>	Yellow Canna Lily	Quinta Grande - Levada Norte
Cyperaceae	Sedge Family	
<i>Carex divulsa</i> subsp. <i>divulsa</i>	Grey Sedge	Ribeiro Frio - Levada Balcoes
<i>Carex muricatus</i> subsp. <i>lamprocarpa</i>	Prickly Sedge	Ribeiro Frio - Levada Balcoes
Iridaceae	Iris Family	
<i>Crocsmia x crocosmiflora</i>	Montbretia	Ribeiro Frio - Levada Balcoes
<i>Watsonia borbonica</i>	Bugle Lily	Santana
Juncaceae	Rush Family	
<i>Juncus acutus</i>	Sharp Rush	Ponta de Sao Lourenco
Liliaceae	Lily Family	
<i>Agapanthus praecox</i>	African Lily	Frequent - Throughout
<i>Aloe arborescens</i>	Sword Aloe	Porto do Cruz
<i>Nothoscordium gracile</i>	Honeybells	Funchal
Orchidaceae	Orchid Family	
<i>Dactylorhiza foliosa</i> *	Madeira Marsh Orchid	Ribeiro Frio - Levada Balcoes
<i>Orchis scopolorum</i>	Rock Orchid	Quinta Grande - Levada Norte
Poaceae	Grass Family	
<i>Aira caryophyllea</i>	Silvery Hair-grass	Ribeiro Frio - Levada Balcoes
<i>Aira praecox</i>	Early Hair-grass	Pico Ruivo
<i>Anthoxanthum maderensis</i> *	Madeiran Sweet Vernal Grass	Ribeiro Frio - Levada Balcoes
<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	Pico Ruivo
<i>Arundo donax</i>	Giant Reed	Porto do Cruz
<i>Avena sterilis</i>	Winter Wild-Oat	Ponta de Sao Lourenco
<i>Briza maxima</i>	Large Quaking-grass	Ribeiro Frio - Levada Balcoes
<i>Briza minor</i>	Annual Quaking-grass	Pico Ruivo
<i>Dactylis glomerata</i>	Cock's foot	Prainha
<i>Festuca donax</i> *	Madeiran Fescue	Ribeiro Frio - Levada Balcoes
<i>Hordium murinum</i>	Wall Barley	Ponta de Sao Lourenco
<i>Hyparrhenia hirta</i>	Hyparrhenia	Ponta de Sao Lourenco
<i>Lagurus ovatus</i>	Hare's-tail Grass	Pico Ruivo
<i>Phalaris paradoxa</i>	Awned Canary-grass	Ponta de Sao Lourenco
<i>Poa annua</i>	Common Meadow-grass	Funchal
<i>Poa pratensis</i>	Smooth Meadow-grass	Ribeiro Frio - Levada Balcoes
<i>Stenotaphrum secundatum</i>	Buffalo Turf-grass	Funchal - Residencial Pina
<i>Stipa capensis</i>	Mediterranean Needle-grass	Ponta de Sao Lourenco
<i>Vulpia bromoides</i>	Squirrel-tail Fescue	Pico Ruivo
Zingiberaceae	Ginger Lily Family	
<i>Hedychium gardineranum</i>	Yellow Ginger Lily	Quinta Grande - Levada Norte
Lichens		
<i>Latheriella baldensis</i>	Yellow/Orange Lichen	Nr. Sao Vicente
<i>Usnea barbata</i>	Old Man's Beard	Ribeiro Frio - Levada Balcoes

Scientific name	Common name	Location
Fungi		
<i>Laurobasidium laurii</i>	Madeiran Laurel Fungus	Ribeiro Frio - Levada Balcoes
Plants Associated with Parks, Streets & Gardens		
<i>Agathis brownii</i>	Kawri of the East Indies	Street, Funchal
<i>Agave attenuata</i>	Maguey Plant	Airport
<i>Araucaria bidwillii</i>	Bunya Pine	Funchal
<i>Araucaria heterophylla</i>	Norfolk Island Pine	Funchal
<i>Archontophoenix cunninghamiana</i>	Elegant Palm	Street, Funchal
<i>Bauhinia variegata</i>	Orchid Tree	Gardens, Funchal
<i>Bougainvillea x hybrida</i>	Bougainvillea	Street, Funchal
<i>Brunfelsia pauciflora</i>	Brunfelsia	Gardens, Funchal
<i>Brunsvigia rosea (Amaryllis belladonna)</i>	Amaryllis	Residencial Pina
<i>Burmansia versicolor</i>	Angel's Trumpet	Gardens, Funchal
<i>Callistemon viminalis</i>	Weeping Bottle-brush	Street, Funchal
<i>Camelia japonica</i>	Camelia	Garden, Ribeiro Frio
<i>Carica papaya</i>	Pawpaw	Machico
<i>Cassia (Senna) didymobotrya</i>	Popcorn Bush	Gardens, Funchal
<i>Casuarina cunninghamiana</i>	Casuarina or Australian Pine	Ponta de Sao Lourenco
<i>Chorisia speciosa</i>	Kapok Tree	Street, Funchal
<i>Colocasia esculenta</i>	Taro-root or Elephant Ears	Canicel
<i>Dicksonia antarctica</i>	Tree Fern	Gardens, Funchal
<i>Eriobotrya japonica</i>	Japanese Loquat Tree	Gardens, Funchal
<i>Erythrina crista-galli</i>	Cock's-comb or Coral Tree	Street, Funchal
<i>Erythrina speciosa</i>	Coral Tree	Garden, Funchal
<i>Eugenia uniflora</i>	Brazil Cherry	Residencial Pina
<i>Euphorbia ingens</i>	Candelabra Tree	Garden, Funchal
<i>Euphorbia pulcherrinia</i>	Poinsettia	Garden, Funchal
<i>Ficus elastica</i>	Indian Rubber Tree	Gardens, Funchal
<i>Furcraea (Agave) foetida</i>	Giant Agave	Gabo Girao
<i>Hibiscus rosa-sinensis</i>	Hibiscus or Shoe Plant	Street, Funchal
<i>Howea forsteriana</i>	Paradise Palm	San Francisco Gdns, Funchal
<i>Jacaranda mimosifolia</i>	Jacaranda	Street, Funchal
<i>Kigelia africana</i>	Fetish Tree	Gardens, Funchal
<i>Kniphofia uvaria</i>	Red Hot Poker	Residencial Pina
<i>Ligularia tussilaginea</i>	Coltsfoot	Gardens, Funchal
<i>Magnolia grandiflora</i>	Large-flowered Magnolia	Santana
<i>Mangifera indica</i>	Mango	Garden, Santana
<i>Markhamia platycalyx</i>	Yellow Trumpet Tree	Street, Funchal
<i>Milvia azedarach</i>	Persian Lilac or Bead Tree	Street, Funchal
<i>Monstera deliciosa</i>	Mexican Breadfruit	Gardens, Funchal
<i>Musa acuminata</i>	Dwarf Banana	West of Funchal
<i>Musa x paradistica</i>	Silver Banana	Plantations west of Funchal
<i>Myoporum acuminatum</i>	Australian Blueberry	West of Funchal
<i>Nerium oleander</i>	Oleander	Street, Funchal
<i>Pandanus utilis</i>	Screwpine	Street, Funchal
<i>Phoenix canariensis</i>	Canary Island Palm	Street, Funchal
<i>Plumbago auriculata</i>	Plumbago	Street, Funchal
<i>Plumeria rubra</i>	Frangipani	Gardens, Funchal
<i>Schefflera actinophylla</i>	Umbrella Tree	Street, Funchal
<i>Spathodea campanulata</i>	Flame of the Forest	Street, Funchal

Scientific name	Common name	Location
<i>Stelitzia reginae</i>	Bird of Paradise Plant	Residencial Pina
<i>Tipuana tipu</i>	Pride of Bolivia	Street, Funchal
<i>Washingtonia filifera</i>	Fountain Palm	Residencial Pina

Birds

	Common name	Scientific name	June						
			1	2	3	4	5	6	7
1	Mallard	<i>Anus platyrhynchos</i>							✓
2	Muscovy Duck	<i>Cairina moschata</i>			✓		✓		✓
3	Little Egret	<i>Egretta garzetta</i>							✓
4	Grey Heron	<i>Ardea cinerea</i>							✓
5	Common Buzzard	<i>Buteo buteo</i>		✓					✓
6	Eurasian Sparrowhawk	<i>Accipiter nisus granti</i>			✓				
7	Common Kestrel	<i>Falco tinnunculus</i>		✓	✓				✓
8	Common Moorhen	<i>Gallinula chloropus</i>							✓
9	Eurasian Coot	<i>Fulica atra</i>							✓
10	Black-tailed Godwit (NBR)	<i>Limosa limosa</i>							✓
11	Ruddy Turnstone	<i>Arenaria interpres</i>			✓				
12	Yellow-legged Gull	<i>Larus michahellis atlantis</i>				✓			✓
13	Lesser Black-backed Gull	<i>Larus fuscus</i>							✓
14	Common Tern	<i>Sterna hirundo</i>					✓		✓
15	Feral Pigeon / Rock Dove	<i>Columba livia</i>	✓	✓	✓	✓	✓	✓	✓
16	Plain Swift	<i>Apus unicolor</i>		✓	✓	✓	✓		✓
17	Common House Martin	<i>Delichon urbicum</i>				✓			
18	Berthelot's Pipit	<i>Anthus berthelotii madeirensis</i>			✓	✓			
19	Grey Wagtail	<i>Motacilla cinerea schmitzi</i>			✓	✓			✓
20	European Robin	<i>Erithacus rubecula</i>						✓	
21	Common Blackbird	<i>Turdus merula cabreræ</i>		✓	✓	✓	✓	✓	✓
22	Blackcap	<i>Sylvia atricapilla heineken</i>		✓	✓		✓		✓
23	Madeiran Firecrest	<i>Regulus madeirensis</i>		✓					✓
24	Common Chaffinch	<i>Fringilla coelebs maderensis</i>		✓	✓				✓
25	Common Linnet	<i>Carduelis cannabina nana</i>							✓
26	European Goldfinch	<i>Carduelis carduelis</i>			✓		✓		✓
27	Atlantic Canary	<i>Serinus canaria</i>				✓			✓

Amphibian & Reptiles

1	Madeiran Wall Lizard	<i>Lacerta (Teira) dugesii</i>		✓	✓	✓	✓	✓	✓
2	Perez's Frog	<i>Rana perezi</i>						✓	

Mammals

1	Rabbit	<i>Oryctolagus cuniculus</i>						✓	
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Marine

1	Warty or Yellow Shore Crab	<i>Eriphia verrucosa</i>					✓		
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Butterflies

1	Clouded Yellow	<i>Colias crocea faillae</i>		✓	✓	✓			
2	Madeiran Brimstone or Cleopatra	<i>Gonepteryx maderensis</i>			✓				

	Common name	Scientific name	June						
			1	2	3	4	5	6	7
3	Madeiran Small Copper	<i>Lycaena phlaeas phlaeoides</i>			✓				✓
4	Monarch or Milkweed Butterfly	<i>Danaus plexippus</i>				✓		✓	
5	European Red Admiral	<i>Vanessa atalanta</i>			✓				
6	Macaronesian Red Admiral	<i>Vanessa vulcania</i>				✓			
7	Madeiran Speckled Wood	<i>Pararge xiphia</i>		✓					

Other invertebrates

1	Field (Type) Cricket	<i>Gryllus bimaculatus</i>				✓			
2	American Cockroach	<i>Periplanata americana</i>		✓				✓	
3	Bee	<i>Amigilla maderae</i>	✓	✓	✓	✓	✓	✓	✓
4	Bumble Bee	<i>Bombus maderensis</i>	✓	✓	✓	✓	✓	✓	✓
5	10 Spot Ladybird	<i>Adalia 10-punctata</i>				✓			
6	Millipede sp.	<i>Cylindroiulus sp.</i>		✓	✓				