

# Madeira

## *Wildlife at Leisure*

### A Greentours Trip Report

18<sup>th</sup> to 25<sup>th</sup> March 2023

Led by Paul Cardy

Daily report and systematic lists written by Paul Cardy



*Echium nervosum*  
Paul Cardy

For the whole week we were based just to the west of Funchal, an ideal location for our daily outings to the north, west, and east of the island, along the south coast, and around the capital itself. Arrival was on Saturday, and we all met for dinner that first evening, enjoyed in a great local restaurant in the hotel grounds, the owner friendly and happy to see us every evening. The espetada was especially popular, seasoned beef chunks grilled on laurel branches, these hung over the table and the meat taken off chunk by chunk, delicious.

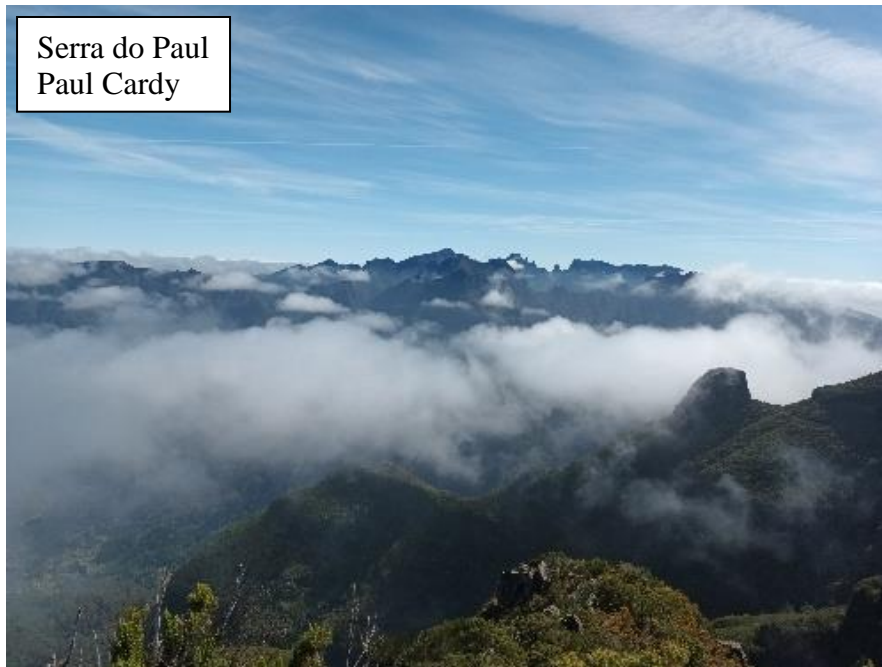
The vegetation highlight here is the laurisilva, the native forest that once covered most of the island, destruction of which began in earnest as long ago as the fourteenth century, immediately colonisation began. This subtropical cloud forest is still extensive in the north of the island, there reaching almost down to sea level, and up into the central mountains. Four species of Lauraceae comprise the

core of the laurisilva, dominant being *Laurus novocanariensis*, often having the fascinating fungus *Laurobasidium laurii* growing on it, and then easy to distinguish from the other three superficially similar species, *Apollonias barbujana*, *Ocotea foetens*, and *Persea indica*.

Invasive alien plants dominate much of the island, especially the southern slopes where basically no native forest remains, but this does result in a fascinating flora from all over the world. Particularly dominant and invasive are *Acacia mearnsii*, *Acacia melanoxylon*, *Leucaena leucocephala*, and various eucalypts. The composite *Ageratina adenophora* is abundantly naturalised on roadsides where

*Agapanthus praecox orientalis* is also abundant. *Agave americana*, and the statuesque *Agave attenuata* with its long drooping inflorescences are a feature of the drive from the airport into town.

Levadas characterise the island, channels carrying water from the mountains down to coastal communities, and the easy walks alongside these through lush forest, ferns especially thriving alongside them, were a highlight of our week here.



We enjoyed superb weather all week, this an ideal time of year to visit, and very popular too, with many sites we visited extremely busy. Of course we soon got away from the crowds by the nature of what we were doing. It's the topography of the island, with no natural sand beaches (one has been created in the south east with Saharan sand!), that the activity for nearly all the many visitors is hiking, not the usual beach activities.

An extremely popular walk is that from the small settlement of Ribeiro Frio in the eastern highlands, to the overlook at Balcoes. Following levadas through fine laurisilva, at the view point tame Chaffinches are endlessly photographed by the many general tourists, also a site for the endemic Trocaz Pigeon. On our first full day, having found a parking place (not always easy) walking to the start of the trail we were immediately seeing endemic species, *Rhamnus glandulosa*, *Erysimum bicolor*, *Geranium palmatum*, *Euphorbia mellifera*, *Laurus novocanariensis*, *Ilex canariense*, *Ilex perado*, and *Phyllis nobla*.

The endemic stonecrops *Aichryson villosum* and *Aichryson divaricatum* were in attractive flower. The shaded lush tracksides had abundant bryophytes and carpets of *Selaginella denticulata* and *Selaginella kraussiana*. Among many ferns were *Christella dentata*, *Dryopteris aitoniana*, impressive *Woodwardia radicans*, and attractive *Davallia canariensis* epiphytic on trunks. Even here in fine laurisilva were some non-natives, including planted *Quercus robur*.

*Sibthorpia peregrina* grew at the pathside, *Melanoselinum decipiens* was an impressively large endemic umbel, endemic *Cedronella canariensis* was strongly aromatic, and endemics continued with *Rubia agostinhoi*, *Helichrysum melaleucum*, *Sonchus ustulatus* in leaf, and *Viola sequeirae*. There were a few of the orchid *Gennaria diphylla* in flower. This is an Atlantic species occurring locally in north west Africa and southern Iberia, and east to Sardinia, where we also see it.

A highlight, and a surprise, was to find *Musschia wollastonii* in unseasonal flower. A rare endemic, planted here, but still great to see such a special plant in bloom in its habitat, although it should flower in the autumn! It belongs to the *Campanulaceae*. On grassy verges in Ribeiro Frio were leaf rosettes of the endemic *Dactylorhiza foliosa*, and we saw it at a few other sites too.

Later in the week, in the north of the island we walked the much less visited Levada do Rei, especially lush with a fine flora. *Vaccinium padifolium* was in fine flower, a species typical of the laurisilva understory. *Clethra arborea*, the Lily-of-the-Valley Tree was numerous here, not in flower at this season though, although the fruits were distinctive. *Persea indica* was among the *Lauraceae*. We enjoyed a fine walk punctuated by endemics including *Smilax canariense*, *Semele androgyna*, *Salix canariense*, *Myrica faya*, *Rubus grandifolius*, *Oxalis debilis*, *Urtica morifolia*, *Rumex maderensis*, and *Teline maderense*. It was here that ferns abounded, among them *Adiantum reniforme*, *Vandenboschia speciosa*, and *Arachnoides webbiana*. At the start of the walk was a selection of non-native shrubs including *Fuchsia arborescens* and *Fuchsia magellanica*. *Solanum mauritianum* was naturalised even higher along the levada, a large shrub for some reason introduced to the island by the botanist R. T. Lowe in the nineteenth century and now widely invasive.

Here we saw the endemic Madeiran Speckled Wood. The widespread Speckled Wood now also occurs on the island, having arrived here in the seventies, and it is much commoner and unfortunately displacing the native species. Perez's Frogs called and were seen in a small pond near the start of the walk.

By contrast the peninsular of São Lourenço in the south east had a fascinating flora in very different habitat, a volcanic landscape of open treeless grassland, and rocky cliffs. We spent a fine day here, walking slowly along the well used trails, up and down series of steps, carrying our lunches with us enabling us to spend the best part of a day here. There were fine views of the three Desertas Islands to the south, and across to the inhabited island of Porto Santo. The walk gave an endless variety of impressive ocean and cliff views. Interesting plants began immediately but it was a short way along the path that endemic plants really came into their own. The composite *Argyranthemum pinnatifidum succulentum* was locally common, representing an endemic genus. Lovely *Matthiola maderensis* was in bloom. Composites continued with *Andryala glandulosa*, *Helichrysum devium*, *Senecio incrassatus*, and *Tolpis succulenta*. This was one of several sites where we saw *Echium nervosum* in bloom, allowing great photos of it with the rocky coast as a backdrop. *Silene uniflora* was common, and *Astragalus pelecinus* and *Lotus glaucus* were in flower. Fleshy mezeams were *Aizoon canariense*, *Mesembryanthemum crystallinum*, and *Mesembryanthemum nodiflorum*. Plantains featured with *Plantago arborescens maderensis*, *Plantago coronopus*, *Plantago lagopus*, and *Plantago leiopetala*. The variety continued with *Rumex simpliciflorus maderensis*, *Euphorbia terracina*, *Linum strictum*, and *Ammi majus*. *Orobanche minor* was in fine form.

This is the best place on the island to see Berthelot's Pipit, and we saw this regional endemic closely. Canaries were much in evidence, we saw Rock Sparrow, Hoopoe, and Whimbrel fed on the open grassy slopes, rather a surprise. Chris got a photo of a Kestrel with a lizard prey. Madeiran Lizards were especially abundant on this walk, one wall especially heaving with them. The area also supports many endemic molluscs.

The drive to and from the east of the island took us under the impressive runway of Funchal airport, the road passing underneath the remarkable structure, impressive pillars towering above.

Although birds are relatively few in number of species, the island supports some special gems. The lovely endemic Madeira Firecrest was often remarkably tame, and approached us closely enabling its beauty to be appreciated, and we saw it nearly daily. The Chaffinches here are an endemic subspecies, with a distinctive green back. The regional endemic Canary was seen daily. Perhaps the

most notable endemic is Trocaz Pigeon, until recently confined to the laurisilva, but now having spread into several of the larger gardens in and around Funchal, and there easy to see well. We saw it both in the laurisilva and in gardens. Buzzard, Kestrel, Blackbird, Blackcap, and Grey Wagtail were all represented by endemic subspecies.

Monarch was impressive in several of the city's gardens. The regional endemic Canary Red Admiral was seen alongside the widespread *atalanta*. A lovely endemic is Madeira Brimstone, or Madeira Cleopatra, a *Gonepteryx* certainly more resembling cleopatra than brimstone with an extensive orange patch on the forewing. We saw it most often in Ribeiro Frio, its foodplant the endemic *Rhamnus*. Long-tailed Blues and Lang's Short-tailed Blues flew in Funchal gardens. Small Copper was represented by an endemic subspecies. Among a few moths seen was the endemic *Scopula irrorata*. Few Odonata occur, but we saw all of them, three species of Emperor, the endemic Island Darter, Red-veined Darter, and Small Bluetail, the only damsel.

As already mentioned ferns featured heavily. Lush especially in laurisilva at Ribeiro Frio and Levada do Rei, along with species already mentioned, notable were *Anogramma leptophylla*, *Asplenium monanthes*, *Hymenophyllum tunbridgense*, *Pteris incompleta*, *Pteris vittata*, *Adiantum hispidulum*, *Adiantum raddianum*, *Asplenium billotii*, *Asplenium onopteris*, *Dryopteris affinis*, *Dryopteris aemula*, *Diplazium caudatum*, and *Stenogramma pozoi*. Regional endemics included *Polypodium macaronesicum* and *Asplenium aethiopicum braithwaitii*.

Superb *Aeonium glandulosum* and *Aeonium glutinosum* were impressive on roadside cliffs. The former had beautiful large plate-like rosettes of leaves appressed to the rock. *Echium candicans* is now rare, occurring locally in the mountains, but often planted on roadsides there, not in flower at this time though. As already mentioned the endemic *Echium nervosum* was in beautiful flower at several places along the south coast. The endemic *Argyranthemum pinnatifidum* often flowered on higher roadsides.

Pockets of native vegetation survive here and there along the densely inhabited south coast. Between the city and the airport was an especially fine area with many endemic *Euphorbia piscatoria* and superb *Echium nervosum* in flower. *Cardiospermum grandiflorum* was here too.

Near the city is the only remaining site for the Macaronesian endemic *Lavandula pinnata*, a species that also occurs in the Canaries. At the same site we found the grasses *Cenchrus ciliaris* and *Paspalum dilatatum*, the regional endemic fern *Cheilanthes maderensis*, endemic *Globularia salicina* in flower, and endemic *Musschia aurea* in leaf. Remarkable here was a lone *Ferraria crispa*, a striking irid that we see in its native habitat on the Cape tour. Quite a surprise to see it here.

Gardens featured on the tour too. We took the very popular cable car above Funchal to Monte Palace Gardens, one of the most famous destinations on the island, the lush extensive plantings featuring a vast collection amid a great mixture of styles, for example an oriental garden, and pools at its centre of the gardens even having flamingos. Among the many things seen here was the rare endemic tree *Picconia excelsa* that we didn't see in the wild. From Monte Palace we went to the Jardim Botânico by taxi, the cable car between the two not operating although it had reopened for my visit the following week. Started by the Reid family in 1881, this fine garden has great views down to Funchal and the harbour. As well as formal plantings and varied collections the garden boasts some two hundred Macaronesian endemics and allowed us to see several species that are now extremely rare in the

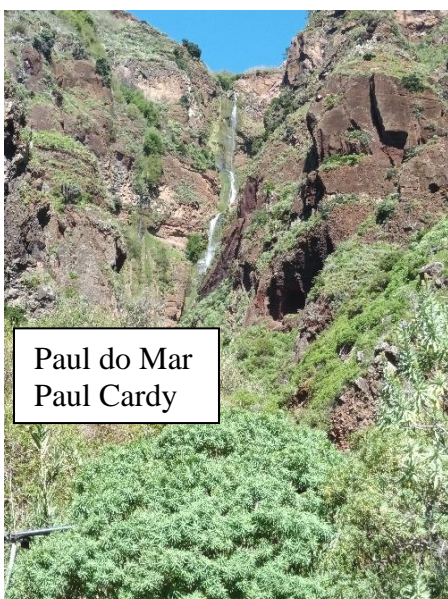
wild, among them *Juniperus cedrus maderensis* and *Aichryson dumosum*. The natural history museum here was interesting, although several of the stuffed birds etc. are a bit tatty!

To the east of town is Palheiro, the jewel of the island's gardens. A beautiful afternoon was spent here, and indeed the following week I was based in the hotel here with another group. Among the many garden highlights here were the *Camellia japonica* collection, many fine Proteaceae, a beautiful large *Liriodendron tulipifera*, *Araucaria heterophylla*, the largest of which was 45m, *Sequoia sempervirens*, *Cinnamomeus camphora*, and lovely New Zealand Christmas Trees, *Metrosideros excelsa*. *Wigandia caracasana* was in impressive flower, and *Lupinus luteus* was naturalised in open areas. Here we had close views of Trocaz Pigeons.

The Dragon Tree Sanctuary, in the eastern suburbs, had fine examples of this incredible Macaronesian endemic, now all but extinct in the wild on Madeira. This lovely small garden also had some rare endemics, notably *Bupleurum salicifolium*, *Monizia edulis*, *Galium productum*, and *Helichrysum monizii*.

Downtown, near the Cathedral Se do Funchal, the Municipal Gardens was a great place for a stroll, followed by lunch in the gardens. Monarchs, and Lang's Short-tailed and Long-tailed Blues were on the wing in the garden, and many Madeiran Lizards were active in the sunshine. In the city centre were Common and Roseate Terns and Sally Lightfoot Crabs on the harbour rocks.

The pass at Encumeada affords fine views to the east of the high jagged peaks, to the west a very different upland, the plain of Paul da Serra, with the longest straight roads on the island, gorse dominating vast areas. At Encumeada Tree Heath dominated and *Hypericum canariense* was in flower. Here we walked a beautiful levada, to the mouth of a long levada tunnel that leads to the lush northern slopes, and some of us ventured a short way in. Alongside the levada, many plants included *Clethra arborea*, *Geranium palmatum*, and *Sonchus fruticosus*. Plain Swifts were in the air and Trocaz Pigeon was seen in the laurisilva. For the last few days of the tour Fred Rumsey from the British Museum joined us, and showed us today *Diphasiastrum madeirense* at its only station on the island, the hybrid *Polypodium x encumeadense* named after the site, and the very local *Ceterach lolegnamense*. *Ranunculus cortusifolius major* was in impressive flower and notable was the endemic *Plantago costae*.



Paul do Mar  
Paul Cardy

On the south west coast the fishing community of Paul do Mar had a fascinating flora above it. Here we saw *Crambe fruticosa*, *Saxifraga maderensis* in fine flower, and *Olea maderensis*. *Trachelium caeruleum* flowered on nearby roadsides.

The last site of the tour was an amazing cliff top viewpoint, for those brave enough to stand on the glass platform atop the sheer cliff!

I'd arrived a few days before the tour to check again the sites I knew from previous visits, and to explore further. Following on from this WAL tour I led another weeks' tour, and in almost three weeks on the island, got to know it pretty well, and to feel at home here.

# Madeira Systematic Lists 2023

## Compiled by Paul Cardy

Day 1 Saturday 18<sup>th</sup> March Arrival, Funchal

Day 2 Sunday 19<sup>th</sup> March Ribeiro Frio, Balcões, Palheiro

Day 3 Monday 20<sup>th</sup> March São Lourenço

Day 4 Tuesday 21<sup>st</sup> March Cable car to Monte Palace Gardens, Funchal Botanic Garden

Day 5 Wednesday 22<sup>nd</sup> March To Poiso, to São Jorge, Levada do Rei, via Machico, Assomada

Day 6 Thursday 23<sup>rd</sup> March Serra de Agua, Encumeada, Paul da Serra, Paul do Mar

Day 7 Friday 24<sup>th</sup> March *Lavandula pinnata* site, Dragon Tree Sanctuary, Palheiro, Municipal Gardens, sites west of Funchal

Day 8 Saturday 25<sup>th</sup> March Departure

*Saxifraga maderensis*  
Paul Cardy



# Systematic List Number 1

# Plants

The order generally follows the standard work, 'Flora of Madeira' edited by JR Press and MJ Short, Natural History Museum, 1994, although with some updated nomenclature.

## *Lycopodiaceae*

*Diphasiastrum madeirense* Encumeada, its only station on Madeira.  
Macaronesian endemic.

## *Selaginellaceae*

*Selaginella denticulata* Mediterranean Selaginella Scattered records  
*Selaginella kraussiana* a selaginella Scattered records

## *Equisetaceae*

*Equisetum telmateia* a horsetail

## *Polypodiaceae*

*Polypodium macaronesicum* Ribeiro Frio  
*Polypodium vulgare* Common Polypody Day 6  
*Polypodium xencumeadense* Encumeada

## *Sinopteridaceae*

*Cheilanthes maderensis* *Lavandula pinnata* site.

## *Pteridaceae*

*Pteris incompleta* Scattered records  
*Pteris vittata* Scattered records  
*Adiantum capillus-veneris* Maidenhair Fern Levada do Rei  
*Adiantum hispidulum* Monte Palace  
*Adiantum raddianum* Scattered records  
*Adiantum reniforme ssp. reniforme* Levada do Rei

## *Hemionitidaceae*

*Anogramma leptophylla* Jersey Fern Scattered records

## *Hymenophyllaceae*

*Hymenophyllum tunbrigense* Tunbridge Filmy Fern Balcões etc.  
*Vandenboschia speciosa* Levada do Rei

## *Dicksoniaceae*

*Dicksonia antarctica* Scattered records, introduced

## *Hypolepidaceae*

*Pteridium aquilinum* Bracken Scattered records

## *Thelypteridaceae*

*Christella dentata* Ribeiro Frio, Funchal  
*Lastrea limbosperma* In laurisilva

*Stenogramma pozoi*

Levada do Rei, Day 6

### ***Aspleniaceae***

<i>Asplenium aethiopicum</i> ssp. <i>braithwaitii</i>		Ribeiro Frio. Macaronesian endemic.
<i>Asplenium anceps</i>		Macaronesian endemic
<i>Asplenium billotii</i>		Ribeiro Frio
<i>Asplenium monanthes</i>		Ribeiro Frio
<i>Asplenium onopteris</i>	a spleenwort	Widespread
<i>Asplenium trichomanes</i> ssp. <i>quadrialeans</i>	Maidenhair Spleenwort	Scattered records
<i>Ceterach lolegnamense</i>	a rustyback fern	Below Encumeada. Endemic.

### ***Athyriaceae***

<i>Athyrium filix-femina</i>	Lady Fern	Widespread
<i>Cystopteris diaphana</i>	a brittle bladder fern	Scattered records
<i>Diplazium caudatum</i>		Scattered records

### ***Aspidiaceae***

<i>Arachnoides webbiana</i>		Levada do Rei. Endemic.
<i>Cyrtomium falcatum</i>		Funchal
<i>Dryopteris aemula</i>		Ribeiro Frio
<i>Dryopteris affinis</i>	Scaly Male Fern	Scattered records
<i>Dryopteris aitoniana</i>		Scattered records. Endemic.
<i>Dryopteris maderensis</i>		Scattered records. Endemic.
<i>Polystichum drepanum</i>		
<i>Polystichum setiferum</i>	Soft Shield Fern	Widespread

### ***Oleandraceae***

*Nephrolepis cordifolia*

### ***Davalliaceae***

*Davallia canariensis* Widespread, on trees

### ***Blechnaceae***

<i>Blechnum spicant</i>	Hard Fern	Widespread
<i>Doodia caudata</i>		Day 6, naturalised
<i>Woodwardia radicans</i>		Scattered records

### ***Pinaceae***

<i>Pinus halepensis</i>	Aleppo Pine	
<i>Pinus pinaster</i>	Maritime Pine	

### ***Cupressaceae***

<i>Cupressus macrocarpa</i>		Planted
<i>Juniperus cedrus</i> ssp. <i>maderensis</i>		Only seen in the Botanic Gardens. Macaronesian endemic. Now rare in the wild.



## ***Taxaceae***

*Taxus baccata* Yew Botanic Gardens

## ***Lauraceae***

*Apollonius barbujana* Laurisilva. Macaronesian endemic.  
*Laurus novocanariensis* Dominant in the Laurisilva  
*Ocotea foetens* Laurisilva. Macaronesian endemic.  
*Persea indica* Laurisilva. Macaronesian endemic.

## ***Ranunculaceae***

*Ranunculus cortusifolius* ssp. *major* In leaf Ribeiro Frio, in flower Day 6.  
Macaronesian endemic.  
*Ranunculus repens* Creeping Buttercup A few records

## ***Berberidaceae***

*Berberis maderensis* a barberry Funchal gardens. Endemic.

## ***Papaveraceae***

*Chelidonium majus* Greater Celandine  
*Eschscholzia californica* Californian Poppy Locally naturalised  
*Fumaria* sp. Scattered records  
*Fumaria muralis* Day 6  
*Papaver dubium* Long-headed Poppy Widespread  
*Papaver rhoeas* Common Poppy  
*Papaver somniferum* Opium Poppy

## ***Myricaceae***

*Myrica faya* Encumeada etc. Macaronesian endemic.

## ***Fagaceae***

*Quercus ilex* Holm Oak  
*Quercus robur* Pedunculate Oak Ribeiro Frio etc.

## ***Cactaceae***

*Opuntia tuna* a prickly pear Widespread  
*Opuntia* sp. Funchal area. *O.ficus-barbarica*?

## ***Aizoaceae***

*Aizoon canariense* São Lourenço  
*Carpobrotus edulis* Hottentot Fig Coastal  
*Drosanthemum floribundum*  
*Mesembryanthemum crystallinum* São Lourenço  
*Mesembryanthemum nodiflorum* São Lourenço

## ***Caryophyllaceae***

*Cerastium fontanum* ssp. *vulgare* Common Mouse-ear Scattered records  
*Cerastium glomeratum* Sticky Mouse-ear Scattered records  
*Petrorhagia nanteuilii* a tunic flower Funchal  
*Polycarpon tetraphyllum* Four-leaved Allseed Widespread

<i>Sagina apetala</i>	Annual Pearlwort	Funchal
<i>Scleranthus annuus</i>	Annual Knawel	
<i>Silene gallica</i>	Small-flowered Catchfly	Widespread
<i>Silene uniflora</i>		São Lourenço and Day 6
<i>Silene vulgaris</i>	Bladder Champion	Funchal
<i>Spergularia bocconii</i>	a sand-spurrey	Funchal
<i>Stellaria media</i>	Chickweed	Scattered records

### ***Portulacaceae***

<i>Portulacca oleracea</i>	Purslane	
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### ***Chenopodiaceae***

<i>Beta vulgaris</i> ssp. <i>maritima</i>	Sea Beet	Coastal
<i>Chenopodium murale</i>	Nettle-leaved Goosefoot	Scattered records
<i>Suaeda vera</i>	Shrubby Seablite	São Lourenço

### ***Amaranthaceae***

<i>Achyranthes sicula</i>		Widespread
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### ***Polygonaceae***

<i>Polygonum capitatum</i>		Naturalised in Funchal
<i>Rumex acetosella</i>	Sheep's Sorrel	Widespread
<i>Rumex crispus</i>	Curled Dock	
<i>Rumex maderensis</i>		Scattered records. Macaronesian endemic.
<i>Rumex obtusifolius</i>	Broad-leaved Dock	
<i>Rumex simpliciflorus</i> ssp. <i>maderensis</i>		São Lourenço. Endemic.

### ***Guttiferae***

<i>Hypericum canariense</i>		Day 6. Macaronesian endemic.
<i>Hypericum grandifolium</i>		Ribeiro Frio. Macaronesian endemic.

### ***Malvaceae***

<i>Abutilon grandifolium</i>		This species (?) in Funchal
<i>Lavatera arborea</i>	Tree Mallow	West coast (week 2)
<i>Lavatera cretica</i>	Cretan Mallow	Scattered records
<i>Malva parviflora</i>	Least Mallow	Funchal

### ***Moraceae***

<i>Ficus carica</i>	Fig	Naturalised
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### ***Urticaceae***

<i>Parietaria judaica</i>	Pellitory of the Wall	Scattered
<i>Soleirolia soleirolii</i>		Ribeiro Frio and Funchal
<i>Urtica membranacea</i>	Membraneous Nettle	Scattered records
<i>Urtica morifolia</i>		Levada do Rei. Macaronesian endemic.

### ***Violaceae***

<i>Viola odorata</i>	Sweet Violet	Levada do Rei
<i>Viola sequeirae</i>		Ribeiro Frio. Endemic.

## ***Passifloraceae***

*Passiflora* sp.  
*Passiflora mollissima* Levada do Rei

## ***Tamaricaceae***

*Tamarix gallica* a tamarisk São Lourenço, planted or naturalised

## ***Salicaceae***

*Salix canariensis* a willow Locally common, e.g. Levada do Rei.  
Macaronesian endemic.

## ***Brassicaceae***

*Arabidopsis thaliana* Thale Cress Scattered records  
*Arabis alpina* ssp.*caucasica* Alpine Rockcress Paul da Serra  
*Brassica nigra* Black Mustard Funchal  
*Capsella bursa-pastoris* Shepherd's Purse  
*Cardamine hirsuta* Hairy Bittercress Scattered records  
*Coronopus didymus* Lesser Swinecress Day 6  
*Crambe fruticosa* South west and west of Funchal. Endemic.  
*Draba muralis* Wall Whitlow Grass Day 2  
*Eruca vesicaria* ssp.*sativa* Eruca Scattered records  
*Erysimum bicolor* Widespread. Macaronesian endemic.  
*Isatis tinctoria* Woad Naturalised  
*Matthiola maderensis* a stock São Lourenço, Funchal, South west.  
Endemic.  
*Raphanus raphanistrum* Sea Radish  
ssp.*maritima*  
*Rapistrum rugosum* Bastard Cabbage São Lourenço  
*Sinapidendron angustifolium* Levada do Rei (in fruit). Endemic.  
*Sinapidendron gymnocalyx* West coast (week 2). Endemic.  
*Sisymbrium erysimoides* Funchal area  
*Sisymbrium irio* London Rocket  
*Sisymbrium officinale* Hedge Mustard

## ***Resedaceae***

*Reseda luteola* Weld Scattered records

## ***Clethraceae***

*Clethra arborea* Levada do Rei and Encumeada.  
Macaronesian endemic.

## ***Ericaceae***

*Erica arborea* Tree Heath Widespread and often dominant  
*Erica platycodon* ssp.*maderincola* Days 5 and 6. Endemic.  
*Vaccinium padifolium* Ribeiro Frio, Levada do Rei, Day 6.  
Endemic.

## ***Sapotaceae***

*Sideroxylon mirmulans* West coast (week 2). Macaronesian endemic.

## ***Primulaceae***

*Anagallis arvensis* Scarlet Pimpernel Scattered records, both blue and red flowered forms

## ***Pittosporaceae***

*Pittosporum coriaceum* Rabaçal (week 2). Endemic.  
*Pittosporum undulatum* Naturalised

## ***Hydrangeaceae***

*Hydrangea macrophylla* Scattered records

## ***Crassulaceae***

*Aeonium glandulosum* North coast, above Serra de Agua, Funchal. Endemic.  
*Aeonium glutinosum* São Lourenço, north coast, above Serra de Agua, Funchal. Endemic.  
*Aichryson divaricatum* Ribeiro Frio, Levada do Rei. Endemic.  
*Aichryson dumosum* In flower Botanic Garden. Endemic. Very rare in the wild.  
*Aichryson villosum* Ribeiro Frio, Day 6. Macaronesian endemic.  
*Crassula multicava* Naturalised  
*Crassula tillaea* Day 5  
*Kalanchoe* spp. Naturalised  
*Sedum nudum* Scattered records. Endemic.  
*Umbilicus rupestris* Navelwort Scattered records

## ***Saxifragaceae***

*Saxifraga maderensis* Paul do Mar, above Serra de Agua, in fine flower. Endemic.

## ***Rosaceae***

*Aphanes australis* a parsley-piert Day 6  
*Crataegus monogyna* Hawthorn Ribeiro Frio  
*Duchesnea indica* Day 2, naturalised.  
*Eriobotrya japonica* Loquat Scattered records  
*Fragaria vesca* Wild Strawberry Scattered records  
*Rosa mandonii* Levada do Rei, in leaf. Endemic.  
*Rubus bollei* a bramble Scattered records  
*Rubus grandifolius* a bramble Levada do Rei. Endemic.  
*Rubus ulmifolius* a bramble

## ***Fabaceae***

*Acacia mearnsii* Widespread and abundantly planted and naturalised

<i>Acacia melanoxydon</i>		Widespread, planted and naturalised
<i>Astragalus pelecinus</i>		São Lourenço
<i>Bituminaria bituminosa</i>	Pitch Trefoil	Widespread
<i>Cytisus scoparius</i>	Broom	Scattered records
<i>Cytisus striatus</i>		Introduced
<i>Genista tenera</i>		Endemic.
<i>Lathyrus clymenum</i>	a pea	Scattered records
<i>Leucaena leucocephala</i>		Funchal, naturalised
<i>Lotus glaucus</i>	a bird's-foot trefoil	Scattered records
<i>Lotus pedunculatus</i>	Greater Bird's-foot Trefoil	In leaf
<i>Lotus</i> spp.		Day 6
<i>Lupinus luteus</i>	Yellow Lupin	Palheiro
<i>Medicago polymorpha</i>	Toothed Medick	Scattered records
<i>Medicago truncatula</i>	a medick	Scattered records
<i>Melilotus indicus</i>	Small Melilot	Scattered records
<i>Melilotus segetalis</i>	a melilot	Scattered records
<i>Ornithopus compressus</i>	Compressed Bird's-foot	Palheiro
<i>Ornithopus pinnatus</i>	Orange Bird's-foot	Scattered records, e.g. at the hotel
<i>Scorpiurus vermiculatus</i>	a scorpiurus	São Lourenço
<i>Teline maderensis</i>	a teline	Scattered records. Endemic.
<i>Trifolium angustifolium</i>	Narrow-leaved Crimson Clover	São Lourenço
<i>Trifolium arvense</i>	Hare's-foot Clover	Scattered records
<i>Trifolium campestre</i>	Hop Trefoil	Widespread
<i>Trifolium glomeratum</i>	Clustered Clover	Week 2
<i>Trifolium pratense</i>	Red Clover	Scattered
<i>Trifolium repens</i>	White Clover	Scattered
<i>Trifolium stellatum</i>	Star Clover	Week 2
<i>Ulex europaeus</i>	Gorse	Widespread, locally dominant
<i>ssp.latebracteatus</i>		
<i>Ulex minor</i>	Dwarf Gorse	Day 6
<i>Vicia capreolata</i>	a vetch	This species on Day 6? Endemic.
<i>Vicia lutea</i>	Yellow Vetch	Week 2
<i>Vicia sativa ssp.nigra</i>	Common Vetch	Scattered records

### *Thymelaeaceae*

*Gnidia polystachya* Day 6

### *Myrtaceae*

*Eucalyptus globulus* Abundantly planted and naturalised

### *Onagraceae*

*Fuchsia arborescens* Levada do Rei  
*Fuchsia magellanica* Levada do Rei

### *Celastraceae*

*Maytenus umbellata* Endemic

### *Aquifoliaceae*

*Ilex canariensis* Ribeiro Frio. Macaronesian endemic.  
*Ilex perado ssp.perado* Ribeiro Frio and Levada do Rei. Endemic.

## ***Euphorbiaceae***

<i>Chamaesyce prostrata</i>		Scattered records
<i>Euphorbia exigua</i>	Dwarf Spurge	Scattered records
<i>Euphorbia mellifera</i>	a spurge	Ribeiro Frio and Levado do Rei. Macaronesian endemic.
<i>Euphorbia peplus</i>	Petty Spurge	Scattered records
<i>Euphorbia piscatoria</i>	a spurge	Locally common, south coast. Endemic.
<i>Euphorbia terracina</i>	a spurge	São Lourenço
<i>Mercurialis annua</i>	Annual Mercury	Scattered records
<i>Ricinus communis</i>	Castor Oil Plant	Scattered records. Naturalised.

## ***Rhamnaceae***

<i>Rhamnus glandulosa</i>	a buckthorn	Ribeiro Frio. Macaronesian endemic.
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## ***Sapindaceae***

<i>Cardiospermum grandiflorum</i>		Day 6, naturalised
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## ***Aceraceae***

<i>Acer pseudoplatanus</i>	Sycamore	
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## ***Anacardiaceae***

<i>Rhus coriaria</i>		Day 6, naturalised
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## ***Linaceae***

<i>Linum strictum</i>		São Lourenço
<i>Linum usitatissimum</i>		Balcões (from bird seed!)

## ***Geraniaceae***

<i>Erodium cicutarium</i>	Common Stork's-bill	Scattered records
<i>Erodium malacoides</i>	Mallow-leaved Stork's-bill	São Lourenço
<i>Erodium moschatum</i>	Musk Stork's-bill	Scattered records
<i>Geranium dissectum</i>	Cut-leaved Crane's-bill	Day 2
<i>Geranium lucidum</i>	Shining Cranesbill	
<i>Geranium maderense</i>		West coast (week 2)
<i>Geranium molle</i>	Dovesfoot Cranesbill	Scattered records
<i>Geranium palmatum</i>		Encumeada
<i>Geranium robertianum</i>	Herb Robert	Scattered records
<i>Geranium rotundifolium</i>	Round-leaved Cranesbill	
<i>Pelargonium spp.</i>		Naturalised

## ***Oxalidaceae***

<i>Oxalis corniculata</i>	Yellow Oxalis	Scattered records
<i>Oxalis debilis</i>		Scattered records
<i>Oxalis pes-caprae</i>	Bermuda Buttercup	Widespread
<i>Oxalis purpurea</i>		Widespread

## ***Tropaeolaceae***

<i>Tropaeolum majus</i>	Nasturtium	Widespread
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## *Araliaceae*

<i>Hedera maderensis</i> <i>ssp.maderensis</i>	an ivy	Widespread
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## *Apiaceae*

<i>Ammi majus</i>		São Lourenço
<i>Ammoides pusilla</i>		
<i>Apium nodiflorum</i>	Fool's Watercress	In leaf
<i>Bupleurum salicifolium</i>		Dragon Tree Sanctuary
<i>Crithmum maritimum</i>	Rock Samphire	São Lourenço and Funchal
<i>Daucus carota</i>	Wild Carrot	
<i>Foeniculum vulgare</i>	Fennel	
<i>Melanoselinum decipiens</i>		Ribeiro Frio and Day 6. Macaronesian endemic.
<i>Monizia edulis</i>		Dragon Tree Sanctuary. Endemic. Very rare in the wild.
<i>Oenanthe divaricata</i>	a water dropwort	In leaf. Endemic.
<i>Petroselinum crispum</i>	Parsley	
<i>Torilis arvensis ssp.neglecta</i>	Spreading Bur Parsley	

## *Oleaceae*

<i>Jasminum azoricum</i>		Funchal. Endemic.
<i>Olea maderensis</i>	an olive	Paul do Mar. Endemic.
<i>Picconia excelsa</i>		Funchal, planted. Rare in the wild. Macaronesian endemic.

## *Solanaceae*

<i>Brugmansia suaveolens</i>		
<i>Hyoscyamus albus</i>	White Henbane	Funchal
<i>Lycopersicon esculentum</i>	Tomato	Naturalised at São Lourenço
<i>Nicotiana glauca</i>	Shrub Tobacco	Funchal
<i>Solanum linnaeanum</i>		São Lourenço
<i>Solanum mauritianum</i>		Widely naturalised, e.g. Levado do Rei
<i>Solanum nigrum ssp.nigrum</i>	Black Nightshade	São Lourenço
<i>Solanum patens</i>		Week 2

## *Convolvulaceae*

<i>Convolvulus althaeoides</i>	Mallow-leaved Bindweed	Scattered records
<i>Convolvulus siculus</i>	Small Blue Convolvulus	Funchal
<i>Dichondra micrantha</i>		In leaf, Municipal Gardens, Funchal
<i>Ipomoea indica</i>		
<i>Ipomoea purpurea</i>		Scattered records

## *Hydrophyllaceae*

<i>Wigandia caracasana</i>		Palheiro and Botanic Garden
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## *Boraginaceae*

<i>Borago officinalis</i>	Borage	West coast (week 2)
<i>Cynoglossum creticum</i>	Blue Hound's-tongue	Day 5
<i>Echium candicans</i>		Ribeiro Frio area. Endemic.

<i>Echium nervosum</i>		Locally in fine flower on the south coast from Paul da Serra to São Lourenço. Endemic.
<i>Echium plantagineum</i>	Purple Viper's-Bugloss	Widespread
<i>Myosotis sylvatica</i>	Wood Forget-me-not	Palheiro, naturalised

### *Verbenaceae*

<i>Lantana camara</i>	Lantana	Naturalised
<i>Verbena</i> sp.		

### *Lamiaceae*

<i>Bystropogon maderensis</i>		This species seen week 2? Endemic.
<i>Bystropogon punctatus</i>		Balcões. Endemic.
<i>Cedronella canariensis</i>		Ribeiro Frio. Macaronesian endemic.
<i>Lavandula pinnata</i>		Very locally in fine flower near Funchal. Macaronesian endemic.
<i>Mentha aquatica</i>	Water Mint	
<i>Micromeria thymoides</i> ssp.cacuminicola	a micromeria	Paul da Serra?
<i>Micromeria thymoides</i> ssp.thymoides	a micromeria	This on the coast?
<i>Plectranthus fruticosus</i>		
<i>Prunella vulgaris</i>	Self-heal	Ribeiro Frio
<i>Stachys arvensis</i>	Field Woundwort	Day 2
<i>Stachys ocymastrum</i>	a woundwort	Scattered records
<i>Teucrium betonicum</i>		Gardens. Endemic.

### *Plantaginaceae*

<i>Plantago arborescens</i> ssp.maderensis		São Lourenço and Day 6. Endemic.
<i>Plantago coronopus</i>	Buck's-horn Plantain	São Lourenço
<i>Plantago costae</i>		Paul da Serra. Endemic.
<i>Plantago lagopus</i>		São Lourenço
<i>Plantago lanceolata</i>	Ribwort Plantain	Scattered records
<i>Plantago leiopetala</i>		São Lourenço
<i>Plantago major</i>	Greater Plantain	Recorded

### *Scrophulariaceae*

<i>Calceolaria tripartita</i>		Ribeiro Frio, naturalised
<i>Cymbalaria muralis</i>	Ivy-leaved Toadflax	Scattered records
<i>Digitalis purpurea</i>	Foxglove	In leaf
<i>Isoplexis sceptrum</i>		Ribeiro Frio. Endemic.
<i>Misopates calycinum</i>		Palmeira (week 2)
<i>Misopates orontium</i>	Weasel's Snout	Scattered records
<i>Sibthorpia peregrina</i>		Day 2, Levada do Rei. Endemic.
<i>Veronica arvensis</i>	Wall Speedwell	Funchal
<i>Veronica hederifolia</i>	Ivy-leaved Speedwell	Day 2

### *Globulariaceae*

<i>Globularia salicina</i>		In flower Paul do Mar and Funchal. Macaronesian endemic.
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## Orobanchaceae

*Orobanche minor* Common Broomrape Widespread

## Bignoniaceae

*Tecoma capensis* Naturalised in Funchal area

## Campanulaceae

*Campanula erinus* Annual Bellflower Days 2 and 6  
*Musschia aurea* In leaf in Funchal area. Endemic.  
*Musschia wollastonii* In superb flower at Balcões, where  
planted. Endemic. Very rare in the wild.  
Usually flowers VIII – XI.  
*Trachelium caeruleum* Throatwort South-west roadsides  
*ssp.caeruleum*  
*Wahlenbergia lobelioides* Funchal  
*ssp.lobelioides*

## Rubiaceae

*Galium aparine* Cleavers Day 5  
*Galium murale*  
*Galium parisiense* Scattered records  
*Galium productum* Dragon Tree Sanctuary. Endemic.  
*Phyllis nobla* Ribeiro Frio, in flower west coast (week 2).  
Macaronesian endemic.  
*Rubia agostinhoi* Wild Madder Scattered, e.g. Ribeiro Frio  
*Sherardia arvensis* Sherardia Scattered records

## Caprifoliaceae

*Lonicera etrusca* Etruscan Honeysuckle In leaf Balcões  
*Sambucus lanceolata* Ribeiro Frio. Endemic.

## Valerianaceae

*Centranthus calcitrapae* a valerian Scattered records  
*Centranthus ruber* Red Valerian Widespread, naturalised

## Asteraceae

*Ageratina adenophora* Abundantly naturalised, invasive  
*Ageratina riparia* Widespread  
*Andryala glandulosa* Locally numerous at São Lourenço  
*ssp.glandulosa*  
*Argyranthemum dissectum* Week 2. Endemic.  
*Argyranthemum pinnatifidum* Below Ribeiro Frio. Endemic.  
*ssp.pinnatifidum*  
*Argyranthemum pinnatifidum* São Lourenço. Endemic.  
*ssp.succulentum*  
*Artemisia arborescens*  
*Bellis perennis* Daisy  
*Bidens pilosa* Widespread, rayless form seen too  
*Calendula arvensis* Corn Marigold Scattered records

<i>Calendula maderensis</i>		Week 2. Endemic.
<i>Carduus squarrosus</i>		North coast. Endemic.
<i>Carduus tenuiflorus</i>		Funchal
<i>Carlina salicifolia</i>		Day 6. Macaronesian endemic.
<i>Chrysanthemum segetum</i>	Corn Marigold	Week 2
<i>Cotula australis</i>		Widespread
<i>Crepis vesicaria</i> ssp. <i>haenseleri</i>		Scattered records
<i>Cynara cardunculus</i> var. <i>ferocissima</i>		São Lourenço
<i>Erigeron karvinskianus</i>		Scattered records
<i>Galactites tomentosa</i>	Galactites	Scattered records
<i>Galinsoga parviflora</i>		Scattered records
<i>Galinsoga quadriradiata</i>		Scattered records
<i>Helichrysum devium</i>		São Lourenço. Endemic.
<i>Helichrysum melaleucum</i>		Ribeiro Frio. Endemic.
<i>Helichrysum monizii</i>		Dragon Tree Sanctuary. Endemic. Very rare in the wild.
<i>Helichrysum obconicum</i>		In leaf São Lourenço, and Funchal. Endemic.
<i>Hypochoeris glabra</i>	Smooth Cat's-ear	Scattered records
<i>Hypochoeris radicata</i>	Common Cat's-ear	Scattered records
<i>Lapsana communis</i>	Nipplewort	Scattered records
<i>Leontodon taraxacoides</i> ssp. <i>longirostris</i>		Week 2
<i>Pericallis aurita</i>		In leaf. Endemic.
<i>Phagnalon saxatile</i>		Scattered records
<i>Pseudognaphalium luteo-album</i>	Jersey Cudweed	Below Paul da Serra
<i>Senecio incrassatus</i>		São Lourenço. Endemic.
<i>Senecio mikanoides</i>		In leaf Levada do Rei
<i>Senecio vulgaris</i>	Groundsel	Scattered records
<i>Sonchus asper</i>	Prickly Sow-thistle	Scattered records
<i>Sonchus fruticosus</i>		Ribiera Frio and Day 6. Endemic.
<i>Sonchus oleraceus</i>	Smooth Sow-Thistle	Scattered records
<i>Sonchus pinnatus</i>		In leaf week 2. Endemic.
<i>Sonchus tenerrimus</i>	a sow-thistle	
<i>Sonchus ustulatus</i> ssp. <i>ustulatus</i>		Scattered records, in flower Funchal. Endemic.
<i>Taraxacum</i> spp.	dandelion spp.	
<i>Tolpis macrorrhiza</i>		Endemic
<i>Tolpis succulenta</i>		São Lourenço. Macaronesian endemic.
<i>Urospermum picroides</i>		Widespread

## Monocotyledons

### *Poaceae*

<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass
<i>Arundo donax</i>	Giant Reed
<i>Avena barbata</i>	
<i>Brachypodium sylvaticum</i>	False Brome
<i>Briza maxima</i>	Large Quaking Grass
<i>Briza minor</i>	Lesser Quaking Grass
<i>Bromus madritensis</i>	Compact Brome
<i>Cenchrus ciliaris</i>	
<i>Chloris gayana</i>	
<i>Cynodon dactylon</i>	

<i>Dactylis glomerata</i> <i>ssp.glomerata</i>	Cock's-foot	
<i>Festuca donax</i>		Endemic
<i>Hordeum murinum</i>	Wall Barley	
<i>Hyparrhenia hirta</i>		
<i>Lagurus ovatus</i>	Hare's-tail Grass	
<i>Lamarckia aurea</i>	Golden Dog's-tail	
<i>Lolium temulentum</i>	Darnel	
<i>Melinis minutiflora</i>		
<i>Panicum repens</i>		
<i>Paspalum dilatatum</i>		
<i>Pennisetum villosum</i>		
<i>Phalaris aquatica</i>		
<i>Phalaris coerulescens</i>		
<i>Poa annua</i>	Annual Meadow-grass	
<i>Poa trivivialis</i>	Rough Meadow-grass	
<i>Rostraria cristata</i>		
<i>Sorghum halepense</i>		

### *Juncaceae*

<i>Juncus acutus ssp.acutus</i>	Sharp Rush	
<i>Luzula campestris</i>	Field Wood-rush	
<i>Luzula elegans</i>		Endemic
<i>Luzula multiflora ssp.multiflora</i>		

### *Cyperaceae*

<i>Carex divoulsa ssp.divoulsa</i>	Grey Sedge	
<i>Carex peregrina</i>		

### *Zingiberaceae*

<i>Hedychium gardnerianum</i>		Naturalised at Ribeiro Frio
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### *Cannaceae*

<i>Canna indica</i>		
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### *Arecaceae*

<i>Phoenix canariensis</i>		
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### *Araceae*

<i>Zantedeschia aethiopica</i>		
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### *Lemnaceae*

<i>Lemna minor</i>	Common Duckweed	
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### *Liliaceae*

<i>Agapanthus praecox ssp.orientalis</i>		Abundantly naturalised
<i>Allium triquetrum</i>	Three-cornered Leek	Widespread
<i>Aloe arborescens</i>		Scattered
<i>Asphodelus fistulosus</i>	Hollow-stemmed Asphodel	São Lourenço

*Ruscus streptophyllus*  
*Semele androgyna*

Day 6. Endemic.  
Ribeiro Frio and Levada do Rei.  
Macaronesian endemic.

### *Iridaceae*

*Ferraria crispa*

One plant near Funchal, native to South Africa

*Freesia refracta*

Naturalised

*Gladiolus italicus*

Estreito

*Romulea columnae* ssp.*columnae*

Below Ribeiro Frio, week 2

*Watsonia borbonica* ssp.*ardernei*

North coast, white flowers

### *Agavaceae*

*Agave americana*

Century Plant

*Agave attenuata*

*Dracaena draco* ssp.*draco*

Fine planted trees, but extremely rare/  
extinct in the wild. Macaronesian endemic.

*Smilax canariensis*

Levado do Rei. Macaronesian  
endemic.

### *Dioscoreaceae*

*Tamus edulis*

Day 6, cultivated? Macaronesian endemic.

### *Orchidaceae*

*Dactylorhiza foliosa*

In leaf at Ribeiro Frio and on Day 6.  
Endemic.

*Gennaria diphylla*

Balcões and Day 6

## Systematic List Number 2

## Butterflies

### *Pieridae*

Small White	<i>Artogeia rapae</i>	Widespread
Clouded Yellow	<i>Colias crocea</i>	Scattered records
Madeira Brimstone	<i>Gonepteryx maderensis</i>	Endemic. Scattered records, especially Ribeiro Frio.

### *Lycaenidae*

Lang's Short-tailed Blue	<i>Leptotes pirithous</i>	Municipal Gardens and Jardim Botânico
Long-tailed Blue	<i>Lampides boeticus</i>	Municipal Gardens and Jardim Botânico
Small Copper	<i>Lycaena phlaeas</i>	Endemic subspecies. Paul da Serra.

### *Danaidae*

Monarch	<i>Danaus plexippus</i>	Gardens in Funchal
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### *Nymphalidae*

Canary Red Admiral	<i>Vanessa vulcania</i>	Endemic to Madeira and Canaries. Scattered records
Red Admiral	<i>Vanessa atalanta</i>	Scattered records
Painted Lady	<i>Vanessa cardui</i>	Scattered records

### *Satyridae*

Speckled Wood	<i>Pararge aegeria</i>	Widespread
Madeiran Speckled Wood	<i>Pararge xiphia</i>	Endemic. Levado do Rei.

## Systematic List Number 3

## Birds

Cory's Shearwater	<i>Calonectris diomedea</i>	Occasional
Little Egret	<i>Egretta garzetta</i>	A few records
Buzzard	<i>Buteo buteo harterti</i>	Scattered records. Endemic subspecies.
Kestrel	<i>Falco tinnunculus canariensis</i>	Widespread. Endemic subspecies.
Coot	<i>Fulica atra</i>	South coast
Whimbrel	<i>Numenius phaeopus</i>	On a grassy slope at São Lourenço
Yellow-legged Herring Gull	<i>Larus cachinnans</i>	Widespread. Near-endemic subspecies.
Common Tern	<i>Sterna hirundo</i>	Funchal
Roseate Tern	<i>Sterna dougallii</i>	Funchal
Rock Dove	<i>Columba livia</i>	Widespread
Trocaz Pigeon	<i>Columba trocaz</i>	Seen superbly well at two sites near Funchal, also Ribeiro Frio and Encumeada. Endemic.
Collared Dove	<i>Streptopelia decaocto</i>	Widespread around habitation
Plain Swift	<i>Apus unicolor</i>	Encumeada. Endemic to Madeira and the Canary Islands.
Hoopoe	<i>Upupa epops</i>	São Lourenço
Swallow	<i>Hirundo rustica</i>	São Lourenço
Berthelot's Pipit	<i>Anthus berthelotii</i>	São Lourenço. Macaronesian endemic.
Grey Wagtail	<i>Motacilla cinerea schmitzi</i>	Ribeiro Frio. Endemic subspecies.
Robin	<i>Erithacus rubecula microrhynchus</i>	Widespread. Endemic subspecies Madeira and Western Canaries.
Blackbird	<i>Turdus merula cabreræ</i>	Widespread. Endemic subspecies Madeira and Canary Islands.
Blackcap	<i>Sylvia atricapilla heinecken</i>	Widespread
Madeira Firecrest	<i>Regulus madeirensis</i>	Widespread in small numbers, often seen very closely. Endemic.
Rock Sparrow	<i>Petronia petronia</i>	São Lourenço
Chaffinch	<i>Fringilla coelebs madeirensis</i>	Widespread. Endemic subspecies.
Canary	<i>Serinus canaria</i>	Widespread, seen daily. Macaronesian endemic.
Greenfinch	<i>Carduelis chloris</i>	Scattered records
Goldfinch	<i>Carduelis carduelis</i>	Scattered records
Linnet	<i>Carduelis cannabina guentheri</i>	Scattered records. Endemic subspecies.

## Systematic List Number 4

## Amphibians and Reptiles

Perez's Frog	<i>Pelophylax perezii</i>	Levada do Rei
Madeira Lizard	<i>Teira dugesii</i>	Endemic. Locally numerous, especially São Lourenço.
Boettger's Lizard	<i>Gallotia caesaris</i>	Botanic Gardens, Funchal, where introduced

## Systematic List Number 5

## Dragonflies

Five dragonflies and one damselfly occur in Madeira, and all were seen.

Small Bluetail	<i>Ischnura pumilio</i>	
Vagrant Emperor	<i>Anax ephippiger</i>	
Lesser Emperor	<i>Anax parthenope</i>	
Blue Emperor	<i>Anax imperator</i>	
Red-veined Darter	<i>Trithemis fonscolombii</i>	
Island Darter	<i>Sympetrum nigrifemur</i>	Endemic to Madeira and Canaries