

# The High Atlas Mountains of Morocco

Naturetrek Tour Report

22 May - 5 June 2013



High Atlas



*Catananche caespitosa*



Essaouira



Stripeless Tree Frog

Report & images compiled by David Tattersfield



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## Day 1

### Wednesday 22nd May

We assembled at Gatwick and departed in the afternoon. Clear, sunny weather allowed good views of the Channel Islands and the Portuguese coast, before we crossed into North Africa. As we descended into Marrakech Menara Airport, the High Atlas was visible to the south, its high peaks highlighted by ribbons of snow. We were met by Mohamed Zaki, our local guide and transferred to the delightful Riad Aladdin, beside the Bahia Palace, on the edge of the medina.

After settling into our rooms, we relaxed on the roof terrace, from where we could closely observe the White Storks, just a few meters away on the city walls. Overhead were hundreds of Pallid Swifts and numbers of the smaller Little Swift, with square-cut tails and white rump patch. We wandered into the centre of the medina to meet Mohamed and enjoyed a delicious dinner around 9.30pm. We rounded off the evening with a coffee, overlooking the bustle of the Jemaa el Fna, before retiring to bed.

## Day 2

### Thursday 23rd May

We breakfasted on the roof terrace, watching the courtship displays of Storks on their huge nests, several of which already had fledglings. House Buntings were nesting in the walls of the Riad and hopped around our feet in search of crumbs. We had the whole day to explore the Red City and started by returning to the Fna, now silent and almost empty. We wandered through the amazing souks that surround it, marvelling at the variety of little shops and the comings and goings of the locals. We made our way to the Medrassa Ben Youssef, taking advantage of a coffee break at the museum, first. After enjoying the magnificent architecture of the Koran School, one of the finest old buildings in the city, we walked to the edge of the souks to dyer's quarter. Back near the Fna, we enjoyed a simple lunch and then took taxis to the Marjorelle Garden, relaxing, during the hottest part of the day, in the shade of the palm trees in this peaceful oasis.

We returned by taxi in late afternoon and strolled around the Koutoubia Mosque, before drinks in a roadside cafe, watching the world go by. By 7.30 we were back in the Riad, after a long but interesting day, where we freshened-up before going out to dinner in a roof-top restaurant overlooking the Koutoubia Mosque.

## Day 3

### Friday 24th May

We were up early and after breakfast and packing, we left Marrakech around 8.30 am. Dropping off our excess luggage, we headed south, towards the High Atlas. In the foothills, we made our first stop, just beyond Tahahanout, to view our first typical Berber village.

In the Poplars and orchards lining the river, we had good views of Golden Oriole and Rollers. The road climbed steeply upwards, skirting the Moulay Brahim Gorge, to Asni, where we purchased water for the trek and had coffee, looking up the valley to snow-streaked peaks which culminated in Jbel Toubkal, the highest in North Africa. A little way up the Mizane Valley, we came to Imi Ourhjad, the start of our trek, where our mules and lunch were waiting. By 1.30 pm we were ready for off and crossed the river to a good mule trail that climbed steeply over the Tizi 'n Bour. There were many plants typical of the warmer southern Mediterranean maquis; Prickly Juniper *Juniperus oxycedrus*, Phoenician Juniper *Juniperus phoenicia* and Holm Oak *Quercus ilex*, with a rich ground flora, such as the blue *Globularia alypum*, Rockroses *Cistus* spp. and Mallow-leaved Bindweed *Convolvulus althaeoides*. In addition, there were plants exclusive to the region; the aromatic-leaved, pink-flowered *Salvia taraxacifolia*, the shrubby Milkwort *Polygala balansae*, the purple-pink daisy *Rhodanthemum gayanum* and in wet areas the endemic Eryngo *Eryngium variifolium*, to name but a few. It wasn't long before we saw our first Moussier's Redstart, a constant companion during the trek. After a careful search of the hillside, we also located Tristram's Warbler, first by its call and then with very good views of birds defending their territory. We descended through some rather barren rocky slopes to El Bour and past the cherry groves of Imsker to our campsite under Walnut trees, on a terrace above the river. All that remained was for us to install ourselves in our tents and look forward to the exciting days ahead.

## Day 4

Saturday 25th May

We were woken by the dawn chorus and watched Golden Orioles in the trees, while we ate breakfast. We made an 8.30am start for our long ascent to our next campsite. Moussier's Redstart were common, with the occasional Black-eared Wheatear and Black Wheatear and Crag Martins swooped low over the cliffs. *Salvia taraxacifolia* was common on the rocky hillsides, along with the Fan-palm *Chamaerops humilis* var. *glauca* and the silver-budded Cupidone *Catananche caerulea*. Stunted Oaks were all that remained of any previous forest and everything was grazed to within an inch of its life by the flocks of sheep and goats, that could be seen streaming from every village, early each morning. Beyond a village, we followed a streambed, lined with roses, Elderberry and the Laburnum-like *Adenocarpus anagyriifolius*, where we saw our first Levaillant's Green Woodpecker.

As we ate lunch in the shade of Walnut trees, Speckled Wood, Cleopatra and Clouded Yellow flitted around us and a Nightingale sang from a nearby thicket. Continuing up a narrowing valley, we negotiated a steep, loose climb to gain a high ridge, with wonderful views back the way we had come. Mohamed's tape recording enticed Firecrest right overhead and we all had excellent views of these tiny colourful birds. We followed a stony plateau, crossing sparse barley fields, dotted with Gladiolus and Tassel Hyacinth *Muscari comosum*, to our excellent camp, overlooking the village of Gliz. Around us the hillsides were colourful with the deep yellow Broom *Cytisus balansae* and the spiny pink cushions of *Abyssum spinosum* and High Atlas Day Geckos ran around the warm sandstone rocks. We ate our meal, after a lovely sunset and the cloud, which had obscured the summit of Jbel Oukaïmeden, high above us, cleared by 10.30 pm, to reveal a starry sky.

## Day 5

Sunday 26th May

We left the campsite at 9.00am and gradually ascended through a forest of ancient Junipers *Juniperus thurifera*, with the multicoloured peaks of the Atlas stretching into a grey haze to the west. After a break for snacks, we crossed the scree on the northern slopes of Jbel Oukaïmeden to the high pasture overlooking the ski resort.

A range of new plants greeted us, including the spiny cushions of *Astragalus ibrahimianus* the silver-budded *Catananche caespitosa*, the purple thistle *Jurinea humilis* and a St Bernard's Lily *Anthericum baeticum*. New birds to us were Wood Lark, Shore Lark, Seebohm's Wheatear, with Black Redstart and Blue Rock Thrush on the shepherds' azibs.

We settled into our dormitories at the Club Alpin Francais before lunch and after showers and a little relaxation, set off for an afternoon of exploration. We searched the sandstone slabs for some of the bronze-age rock carvings that are scattered across the hillside and, avoiding the trinket sellers, who had appeared out of nowhere, crossed the dam, to the line of low cliffs on the far side. Growing under the rocks was the Bluebell relative *Hyacinthoides hispanica* subsp. *algeriense* with creamy anthers, while on the drier exposed slabs the straw-yellow flowers of *Rhodanthemum catananche* made a fine show. Along the cliffs were lots of pink *Valeriana tuberosa*, deep-blue Fodder Vetch *Vicia villosa* and quantities of Meadow Saxifrage *Saxifraga granulata*. The only prominent shrubs were *Daphne laureola* and a rather fine bush of Snowy Mespilus *Amelanchier ovalis*. We returned along the edge of the dam, startling many noisy frogs in the process. By 5.00 pm thick mist rolled up the valley but cleared away after darkness had fallen.

## Day 6

Monday 27th May

After breakfast, we left the relative comfort of the Club Alpin Francais and headed off up the valley in warm sunshine to the sound of huge mixed flocks of Chough and Alpine Chough overhead. Below the ski lifts, in the wet margins of the stream, Robust Marsh Orchids *Dactylorhiza elata* were just coming into flower and the water was white with Thread-leaved Water Crowfoot *Ranunculus trichophyllus*. We walked slowly along the flat valley bottom, observing the birds among the mounds of gravel, where building materials have been extracted. Black Redstarts were busy nesting in the summer dwellings or azibs, and Woodlark, Thekla Lark and Tawny Pipit were all seen well and we were delighted to add Rock Thrush to our list. Of the smaller birds, flocks of Linnet and Serin were everywhere but with a little patient searching, we eventually located a number of Crimson-winged Finches, a speciality of the region.

The massive bulk of Jbel Angour was in front of us as we made a final steep climb to the Tizi n'ou Eddi, at 2960 m the highest point of our trekking route. To the south the view was outstanding with Jbel Toubkal and its satellite 4000m peaks, dominating the skyline and rising above an amazing cloud inversion in the valleys. We stopped for our usual mid-morning snack at an airy vantage point, from where we could see our destination and the next few days' walk far below us. A steep zigzag mule trail lay ahead, threading through the cliffs and screes down to Tachddirt, near the head of the valley. On arrival at our campsite, we were able to use the adjacent Gite to eat a late lunch and relax in the hot sunshine. By 4.30 the mist rose up the valley and a notable chill set in.

## Day 7

Tuesday 28th May

We awoke to a chilly two degrees, with frost on the tents, but otherwise a bright sunny morning. A gentle road walk during the morning allowed us to fully appreciate the scenery. Robust Marsh Orchids lined some of the irrigation ditches, where green pasture had been created from the otherwise dry landscape. Alongside the road were many plants of the luminous-yellow Woad *Isatis tinctoria* and the silver rosettes of the endemic Thistle *Cirsium dymis*.

A number of butterflies included Bath White, Vaucher's Heath, Giant Grayling and the North African subspecies of Glanville Fritillary. From the Tizi n' Tachdirt, we descended steeply through Pine plantations and a village to our pre-determined lunch stop in a Walnut grove, where after the usual feast, we had time for a siesta.

By mid-afternoon, it became cloudy and cooler so we set off again, following a mule trail and water channels through the village and up through a maze of large boulders to the village of Aroumd. Crossing the river, we spotted our first Dipper racing upstream and heard the familiar call of Levillant's Green Woodpecker in the walnuts. We were soon in our Gite, our home for two nights and, once more, the luxury of showers, a roof over our heads and an opportunity for some essential washing.

## Day 8

Wednesday 29th May

The day dawned clear and bright, with the snows of Jbel Toubkal gleaming at the head of the valley. After a leisurely breakfast, we set off across the broad gravelly expanse of the flood plain and joined the mule trail that zig-zagged upwards to the religious shrine of Sidi Chamharouch. Crag Martin, House Martin and Red-rumped Swallow were constant companions overhead with Black and Moussier's Redstart, among the boulders. We enjoyed a refreshing brew of mint tea at the shrine, a drink to which we were all now well accustomed, while enjoying really close views of Alpine Chough. A cheery 'Hello' from our amiable cook, Mohamed, and a delicious hot lunch awaited us down in the river bed and we relaxed, watching the comings and goings of Dipper and Grey Wagtail.

We returned down the trail, busy with pilgrims and the usual Toubkal traffic and made a diversion along the water-channels, that had turned the steep valley side into a floral spectacle, with roses, yellow *Adenocarpus anagyriifolius*, colourful patches of Kidney Vetch *Anthyllis vulneraria* subsp. *maura*, *Aquilegia vulgaris* var. *ballii* and lots of Orchids. A good range of butterflies added to the afternoon's entertainment, as we made our way slowly back for our obligatory tea and biscuits.

## Day 9

Thursday 30th May

We made our usual start, around 8.30am, initially following the piste above the busy road-head village of Imlil, before starting the steep 500 metre ascent to the Tizi Mzic. In the hot sun, a number of butterflies were on the wing and we had our best views of the endemic Vaucher's Heath. We took our time, enjoying the views, the colourful flowers and the noisy antics of the Atlas Magpies. Nevertheless, it was a relief to reach the top and relish our achievement. We descended gradually through magnificent Juniper forest, along the boundary of the National Park to lunch. Attempts to exclude grazing within the protected area had clearly been a pointless exercise, as the fencing wire had been cut in many places. Cloud was gradually building and we set off again for our campsite, hoping the anticipated rain would not materialise. It was an easy stroll, through a breathtaking landscape, to our camp at Azib Tamsoult, where our muleteers, who had effortlessly overtaken us earlier in the day, had everything prepared, as usual.

## Day 10

Friday 31st May

The cloud had cleared overnight and we awoke to a perfect day. Apart from a shepherd and a large flock of sheep and goats, we had the place to ourselves.

We had the whole day to explore the higher part of the Assaden Valley, above our campsite and set off through the patchwork of terraced fields and azibs that would become a hive of activity later in the season. We entered a deep ravine, beneath huge cliffs and made our way up to the largest of the waterfalls. It was an impressive sight, with rainbows visible in the spray at its base. The cliffs had an interesting selection of plants, including Alpine Rock Cress *Arabis alpina* subsp. *caucasica*, the endemic Ivy-leaved Whitlowgrass *Draba hederifolia* and *Saxifraga maireana*, clearly enjoying the damp shaded conditions. The path continued steeply upwards allowing close views of the unusual cliff-dwelling shrubby daisies, *Aliella platyphylla* and *Aliella ballii*, which we had seen distantly on Jbel Angour.

Once above the cliffs, the trail became a straight-forward uphill walk to the Tazarhart Refuge at 3000 metres, where we could relax and eat our snacks. High above us was the snow-streaked Tazarhart Plateau and below were distant views of the foothills and the final stages of the trek. At this high elevation, we had hoped to see Alpine Accentor and were not disappointed, seeing up to ten individuals around the hut. We were back at the campsite by mid-afternoon, well satisfied with our achievements.

## Day 11

## Saturday 1st June

After an open-air breakfast and repacking our bags, we set off down on the easy mule trail through open Juniper forest. There were many venerable specimens, several thousand years old, despite the obvious signs of harvesting for firewood and the massive scale of soil erosion that currently affects the whole of the High Atlas. It wasn't long before we reached signs of habitation, with irrigation ditches, walnut trees and terraced hillsides around the villages. Passing through the narrow alleyways gave us an insight into the daily lives of the industrious Berbers and their time-honoured traditions.

We stopped for a long lunch break and some welcome shade from the strong sun before descending to cross the river to our Camp at Tiziane. Cloud had built up during the day but, although thunder rumbled around us, no rain came and we spent the remainder of the afternoon pottering around the campsite.

## Day 12

## Sunday 2nd June

We continued the second half of our long descent, setting off through Apple orchards where we had splendid views of Sardinian Warbler and Western Olivaceous Warbler. On dry hillsides, beyond, we had the fortune to spot several Atlas Agamas, sunning themselves on the rocks before a steep descent and river crossing was necessary to negotiate a narrow gorge. As we descended, the day warmer up considerably, with the temperature reaching 29 degrees in the shade. The vegetation changed markedly, as we entered the hotter Mediterranean zone, with Lentisc *Pistacia lentiscus* Carob *Ceratonia siliqua*, Prickly Juniper *Juniperus oxycedrus* and Holm Oak *Quercus ilex* dominating the maquis. Across the valley this was particularly dense, in the protected area of the Reserve de Takherkhort, where there may still be a small surviving population of Barbary Sheep. Several species of Cistus and Lavender were present, including the endemic *Lavandula pedunculata* subsp. *atlantica*. Noisy Cicadas sang from the trees and we came across a large Mediterranean Chameleon crossing the path.

We left the main trail and followed the riverbed, through colourful stands of Oleander, to our campsite on the river bank, where the usual delicious lunch was waiting.

Like previous days, storm clouds were gathering and thunder signalled an increasing threat of a storm. From previous experience, these can be spectacular and cause catastrophic flash flooding and in such circumstances our campsite was vulnerable. We decided to leave the site and continued along the road past the village of Tessa Ouirgane, where we found a much better position for our tents and had effectively reached the end of our trek. As it happened the thunder clouds dissipated, but it had been a good decision and was a comfortable place to spend our last night. As an added bonus, we had a real treat, when a number of Nightjars displayed their wing-clapping courtship, as darkness fell.

## Day 13

### Monday 3rd June

After a comfortable and warm night, it was time to pack away our camp for the last time. Our vehicles arrived, tents and equipment were packed away and our gear was stowed in the minibus. We thanked our trekking team and said our goodbyes. We were sorry to see them go; they had been great company and taken everything in their stride. Before our long drive, we continued our walk down the road for an hour or more, to fully appreciate the semi-desert environment and the eroded landscape. The prominent tree was the unusual conifer *Tetraclinis articulata*, the root of which, as we were to see, forms the basis of the wood-carving industry in Essaouira. Birds on the walk included Tristram's Warbler, Roller, a splendid male Black-eared Wheatear and both Southern Grey and Woodchat Shrikes.

We walked out to the main road and boarded the bus for the journey back to Marrakech. We stopped briefly to pick up the rest of our gear and continued west, stopping for a light lunch at Chichaoua, our half-way point. Beyond the dusty plateau, as we neared the coast, we made stops to see the Argan trees and an Argan cooperative, where souvenirs were duly purchased. A short while later we arrived in Essaouira and splendid Riad Al Madina in the centre of town. We had a little time to explore before going out to dinner on the ramparts overlooking the impressive Portuguese sea-defences, with Eleonora's Falcons gliding overhead.

## Day 14

### Tuesday 4th June

We shared breakfast with the resident House Buntings, before spending the morning walking along the beach. New birds on the estuary included Greenshank, Sanderling, Dunlin, Little Stint and Black-winged Stilt, with Kentish, Little-ringed and Ringed Plover. Best of all was a flock of seventeen Spoonbills, perhaps one hundred Eleonora's Falcon and a single Moroccan Wagtail, with its distinctive head pattern. New to our list of reptiles were Spur-thighed Tortoise and Spiny-footed Lizard. We returned along the road to Essaouira and after freshening up, went out for a simple lunch in the square. After a visit to one of the carpentry workshops, everyone went their separate ways in the afternoon, exploring the picturesque harbour, the markets and the maze of busy streets. After this, we ended up back in the square at the Café de France. A final lovely meal in a quiet restaurant finished the day before we returned to pack for our homeward journey.

## Day 15

### Wednesday 5th June

We needed to make an early start for the return journey. We made good time, and after dropping off Sergio at the airport and saying our goodbyes, we went for lunch in Marrakech and a final stroll round the Jemaa el Fna, before it was our turn to depart.

We thanked Mohamed for his great help and companionship during our time in Morocco and left with lasting memories of our many shared experiences in the High Atlas!

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## Species List

Plants (• = endemic)

Scientific name	Common name
<b>LYCOPODIOPSIDA</b>	<b>CLUBMOSES</b>
<b>Selaginellaceae</b>	<b>Lesser Clubmoss Family</b>
<i>Selaginella balansae</i> •	A Clubmoss
<i>Selaginella denticulata</i>	Mediterranean Clubmoss
<b>EQUISETOPSIDA</b>	<b>HORSETAILS</b>
<b>Equisetaceae</b>	<b>Horsetail Family</b>
<i>Equisetum ramosissimum</i>	Branched Horsetail
<b>PTEROPSIDA</b>	<b>FERNS</b>
<b>Adiantaceae</b>	<b>Maidenhair Fern Family</b>
<i>Adiantum capillus-veneris</i>	Maidenhair Fern
<i>Anogramma leptophylla</i>	Jersey Fern
<i>Cheilanthes pteridioides</i>	
<i>Cheilanthes vellea</i>	
<b>Aspleniaceae</b>	<b>Spleenwort Family</b>
<i>Asplenium adiantum-nigrum</i>	Black Spleenwort
<i>Asplenium onopteris</i>	Irish Spleenwort
<i>Asplenium trichomanes</i>	Maidenhair Spleenwort
<i>Asplenium ruta-muraria</i>	Wall Rue
<i>Asplenium septentrionale</i>	Forked Spleenwort
<i>Asplenium viride</i>	Green Spleenwort
<i>Ceterach officinarum</i>	Rustyback
<b>Dennstaedtiaceae</b>	<b>Bracken Family</b>
<i>Pteridium aquilinum</i>	Bracken
<b>Dryopteridaceae</b>	
<i>Dryopteris felix-mas</i>	Male Fern
<i>Polystichum aculeatum</i>	Prickly Shield-fern
<b>Polypodiaceae</b>	<b>Polypody Family</b>
<i>Polypodium cambricum</i>	Southern Polypody
<b>Woodsiaceae</b>	<b>Lady-fern Family</b>
<i>Cystopteris dickeana</i>	Dickie's Bladder-fern
<i>Cystopteris fragilis</i>	Brittle Bladder-fern
<b>PINOPSIDA</b>	<b>CONIFERS</b>
<b>Cupressaceae</b>	<b>Cyprus Family</b>
<i>Cupressus sempervirens</i>	Italian Cypress
<i>Juniperus oxycedrus</i> subsp. <i>macrocarpa</i>	Large-fruited Prickly Juniper
<i>Juniperus oxycedrus</i> subsp. <i>oxycedrus</i>	Prickly Juniper

<b>Scientific name</b>	<b>Common name</b>
<i>Juniperus phoenicia</i>	Phoenician Juniper
<i>Juniperus thurifera</i>	Spanish Juniper
<i>Tetraclinis articulata</i>	Tetraclinis
<b>Ephedraceae</b>	<b>Joint-Pine Family</b>
<i>Ephedra fragilis</i>	Brittle Joint-pine
<b>Pinaceae</b>	<b>Pine Family</b>
<i>Cedrus libani</i> subsp. <i>atlantica</i> •	Atlantic Cedar
<i>Pinus halepensis</i>	Aleppo Pine
<i>Pinus pinea</i>	Stone Pine
<b>MAGNOLIOPSIDA</b>	<b>FLOWERING PLANTS</b>
<b>MAGNOLIIDAE</b>	<b>DICOTYLEDONS</b>
<b>Aizoaceae</b>	<b>Dew Plant Family</b>
<i>Carpobrotus edulis</i>	Hottentot Fig
<i>Mesembryanthemum cristallinum</i>	Ice Plant
<i>Mesembryanthemum nodiflorum</i>	
<b>Anacardiaceae</b>	<b>Sumach Family</b>
<i>Pistacia lentiscus</i>	Lentisc
<i>Pistacia terebinthus</i>	Terebinth
<i>Rhus tripartita</i>	
<b>Apiaceae</b>	<b>Carrot Family</b>
<i>Bunium bulbocastanum</i>	
<i>Bupleurum atlanticum</i> •	
<i>Bupleurum fruticosum</i>	Shrubby Hare's-ear
<i>Bupleurum frutescens</i> subsp. <i>spinosum</i>	Spiny Hare's-ear
<i>Crithmum maritimum</i>	Rock Samphire
<i>Daucus carota</i>	Wild Carrot
<i>Eryngium bourgatii</i>	Pyrenean Eryngo
<i>Eryngium campestre</i>	Field Eryngo
<i>Eryngium ilicifolium</i>	Holly-leaved Eryngo
<i>Eryngium tricuspdatum</i>	
<i>Eryngium variifolium</i> •	
<i>Foeniculum vulgare</i> subsp. <i>piperatum</i>	Fennel
<i>Heracleum sphondylium</i>	
<i>Orlaya daucoides</i>	
<i>Pseudorlaya pumila</i>	Pseudorlaya
<i>Scandix pecten-veneris</i>	Shepherd's Needle
<i>Sesili libanotis</i> subsp. <i>atlanticum</i> •	
<i>Tordylium apulum</i>	Tordylium
<i>Torilis elongata</i>	
<b>Apocyanaceae</b>	<b>Periwinkle Family</b>
<i>Nerium oleander</i>	Oleander
<i>Vinca difformis</i>	
<b>Araliaceae</b>	<b>Ivy Family</b>
<i>Hedera helix</i> subsp. <i>maroccana</i> •	Ivy

Scientific name	Common name
<b>Aristolochiaceae</b>	<b>Birthwort Family</b>
<i>Aristolochia paucinervis</i>	A Birthwort
<b>Asteraceae</b>	<b>Daisy Family</b>
<i>Achillea ligustica</i>	
<i>Aliella ballii</i> •	
<i>Aliella platyphylla</i> •	
<i>Anacyclus pyrethrum</i> var. <i>depressus</i> •	
<i>Andryala maroccana</i> •	
<i>Anthemis pedunculata</i>	
<i>Anthemis rigida</i>	Rayless Chamomile
<i>Arctium minus</i>	Lesser Burdock
<i>Atractylis cancellata</i>	Bird-cage Thistle
<i>Atractylis gummifera</i>	Atractylis
<i>Bellis annua</i>	Annual Daisy
<i>Bellis caerulea</i> •	
<i>Calendula arvensis</i>	Field Marigold
<i>Carduncellus pinnatus</i> var. <i>acaulis</i> •	
<i>Carduncellus rhaponticoides</i> •	
<i>Carduus macrocephalus</i>	
<i>Carduus nutans</i> subsp. <i>maurus</i>	
<i>Carlina corymbosa</i>	Flat-topped Carline Thistle
<i>Carthamnus arborescens</i>	
<i>Carthamnus lanatus</i>	
<i>Catananche caerulea</i>	Cupidone
<i>Catananche caespitosa</i> •	
<i>Centaurea calcitrapa</i>	Red Star-thistle
<i>Centaurea melitensis</i>	Maltese Star-thistle
<i>Centaurea pullata</i>	
<i>Centaurea solstitialis</i>	Yellow Star-thistle
<i>Centaurea sphaerocephala</i>	
<i>Centaurea takredensis</i>	
<i>Chamaemelum scariosum</i> •	
<i>Chondrilla juncea</i>	Chondrilla
<i>Cichorium intybus</i>	Chicory
<i>Cirsium chrysacanthum</i> •	
<i>Cirsium dorys</i> •	
<i>Cladanthus arabicus</i>	Cladanthus
<i>Crepis hookeriana</i> •	Hooker's Hawksbeard
<i>Crupina crupinastrum</i>	Crupina
<i>Cynara cardunculus</i>	Cardoon
<i>Dittrichia graveolens</i>	
<i>Dittrichia villosa</i>	Stinkweed
<i>Echinops spinosus</i>	A Globe Thistle
<i>Erigeron mairei</i> •	Maire's Fleabane
<i>Eupatorium cannabinum</i>	Hemp Agrimony
<i>Evax pygmaea</i>	
<i>Galactites tomentosa</i>	Galactites
<i>Glebionis coronaria</i>	Crown Daisy
<i>Glebionis segetum</i>	Corn Marigold
<i>Hieracium pilosella</i>	Mouse-ear Hawkweed
<i>Helichrysum italicum</i>	Curry Plant

Scientific name	Common name
<i>Hyoseris radiata</i>	
<i>Inula montana</i>	
<i>Jurinea humilis</i>	
<i>Lactuca perennis</i>	Blue Lettuce
<i>Lactuca serriola</i>	Prickly Lettuce
<i>Launaea arborescens</i>	A Launea
<i>Launaea resedifolia</i>	
<i>Leontodon tuberosus</i>	Tuberous Hawkbit
<i>Mantiscalca salmantica</i>	Mantiscalca
<i>Onopordon acaulon</i>	
<i>Pallenis spinosa</i>	Pallenis
<i>Phagnalon rupestre</i>	
<i>Phagnalon saxatile</i>	
<i>Picnomon acarna</i>	Picnomon
<i>Picris hispanica</i>	
<i>Pseudognaphalium luteo-album</i>	Jersey Cudweed
<i>Ptilostemon hispanicus</i>	
<i>Reichardia tingitana</i>	Reichardia
<i>Rhagadiolus stellatus</i>	Star Hawkbit
<i>Rhodanthemum atlanticum</i> •	
<i>Rhodanthemum catananche</i> •	
<i>Rhodanthemum depressum</i> •	
<i>Rhodanthemum gayanum</i> •	
<i>Scolymus hispanicus</i>	Spanish Oyster Plant
<i>Scorzonera pseudopygmaea</i> •	
<i>Silybum marianum</i>	Milk Thistle
<i>Sonchus asper</i>	
<i>Taraxacum</i> cf. <i>obovatum</i>	A Dandelion
<i>Taraxacum</i> sp.	A Dandelion
<i>Tolpis barbata</i>	Tolpis
<i>Tragopogon crocifolius</i>	
<i>Tragopogon dubius</i>	
<i>Tragopogon hybridum</i>	
<i>Tragopogon porrifolius</i>	Salsify
<i>Tragopogon pratensis</i>	Goat's-beard
<i>Tragopogon sinuatus</i>	Prickly Sow-thistle
<i>Urospermum dalechampii</i>	Urospermum
<i>Volutaria lippii</i>	
<i>Xanthium spinosum</i>	Spiny Cocklebur
<i>Xanthium strumarium</i>	Rough Cocklebur
<i>Xeranthemum inapterum</i>	Xeranthemum
<b>Boraginaceae</b>	<b>Borage Family</b>
<i>Anchusa azurea</i>	Large Blue Alkannet
<i>Asperugo procumbens</i>	Madwort
<i>Borago officinalis</i>	Borage
<i>Cerinthe major</i>	Honeywort
<i>Cynoglossum creticum</i>	Cretan Hound's-tongue
<i>Cynoglossum watieri</i> •	
<i>Echium arenarium</i>	
<i>Echium boissieri</i> •	
<i>Echium flavum</i>	

<b>Scientific name</b>	<b>Common name</b>
<i>Echium plantagineum</i>	Purple Viper's Bugloss
<i>Erucaria hispanica</i>	Spanish Mustard
<i>Heliotropium europaeum</i>	Heliotrope
<i>Myosotis atlantica</i> •	A Forget-me-not
<i>Neatostema apulum</i>	Yellow Gromwell
<b>Brassicaceae</b>	<b>Cabbage Family</b>
<i>Aethionema saxatile</i> subsp. <i>latifolium</i>	Burnt Candytuft
<i>Alyssum atlanticum</i> •	
<i>Alyssum spinosum</i>	Spiny Alyssum
<i>Arabis alpina</i> subsp. <i>caucasica</i>	Alpine Rock Cress
<i>Arabis erubescens</i> •	
<i>Arabis conringioides</i> •	
<i>Arabis verna</i>	Spring Rock Cress
<i>Biscutella didyma</i>	Biscutella
<i>Cakile maritima</i>	Sea Kale
<i>Capsella bursa-pastoris</i>	Shepherd's Purse
<i>Cardaria draba</i>	Hoary Cress
<i>Crambe filiformis</i>	
<i>Descurania sophia</i>	Flixweed
<i>Draba hederifolia</i> subsp. <i>hederifolia</i> •	
<i>Erysimum gramineum</i> •	
<i>Erysimum incanum</i>	
<i>Hirschfeldia incana</i>	Hoary Mustard
<i>Hornungia petraea</i>	Hutchinsia
<i>Isatis tinctoria</i> subsp. <i>tinctoria</i>	Woad
<i>Lepidium draba</i>	Hoary Cress
<i>Lobularia maritima</i>	Sweet Alison
<i>Nasturtium officinale</i>	Watercress
<i>Thlaspi perfoliatum</i>	Perfoliate Pennycress
<b>Buxaceae</b>	<b>Box Family</b>
<i>Buxus sempervirens</i>	Box
<b>Cactaceae</b>	<b>Cactus Family</b>
<i>Opuntia cylindrica</i>	
<i>Opuntia ficus-barbarica</i>	Prickly Pear
<b>Callitrichaceae</b>	<b>Water Starwort Family</b>
<i>Callitriche stagnalis</i>	Common Water Starwort
<b>Campanulaceae</b>	<b>Bellflower Family</b>
<i>Campanula erinus</i>	Annual Bellflower
<i>Campanula filicaulis</i> •	
<i>Campanula lusitanica</i> •	
<i>Campanula mairei</i> •	
<i>Campanula rotundifolia</i>	Harebell
<i>Campanula</i> sp.	A Bellflower
<i>Jasione crispa</i>	
<i>Legousia hybrida</i>	Venus's Looking Glass
<i>Legousia speculum-veneris</i>	Large Venus's Looking Glass
<i>Wahlenbergia nutabunda</i>	Wahlenbergia

<b>Scientific name</b>	<b>Common name</b>
<b>Cannabaceae</b>	<b>Hemp Family</b>
<i>Cannabis sativa</i>	Hemp
<b>Capparaceae</b>	<b>Caper Family</b>
<i>Capparis spinosa</i>	Caper
<b>Caprifoliaceae</b>	<b>Honeysuckle Family</b>
<i>Lonicera etrusca</i>	Etruscan Honeysuckle
<i>Lonicera implexa</i>	
<i>Sambucus nigra</i>	Elder
<i>Viburnum tinus</i>	Laurustinus
<b>Caryophyllaceae</b>	<b>Pink Family</b>
<i>Agrostemma githago</i>	Corncockle
<i>Arenaria pungens</i> •	
<i>Cerastium arvense</i>	Field Mouse-ear
<i>Cerastium boissierianum</i>	
<i>Cerastium brachypetalum</i>	Grey Mouse-ear
<i>Cerastium cerastoides</i>	
<i>Dianthus lusitanus</i> •	
<i>Dianthus sylvestris</i>	Wood Pink
<i>Herniaria glabra</i>	Smooth Rupturewort
<i>Minuartia verna</i>	Spring Sandwort
<i>Moehringia trinervia</i> subsp. <i>pentandra</i>	Moehringia
<i>Paronychia argentea</i>	
<i>Paronychia kapela</i>	
<i>Paronychia polygonifolia</i>	
<i>Petrorhagia prolifera</i>	Proliferous Pink
<i>Petrorhagia velutina</i>	
<i>Polycarpon tetraphyllum</i>	Four-leaved Alseed
<i>Sagina procumbens</i>	Procumbent Pearlwort
<i>Scleranthus annuus</i>	Annual Knawel
<i>Scleranthus perennis</i>	Perennial Knawel
<i>Silene boryi</i>	
<i>Silene colorata</i>	
<i>Silene gallica</i>	Small-flowered Catchfly
<i>Silene latifolia</i>	White Campion
<i>Silene nocturna</i>	
<i>Silene nutans</i>	Nottingham Catchfly
<i>Silene vulgaris</i>	Bladder Campion
<i>Spergularia fimbriata</i>	A Sea Spurry
<i>Stellaria media</i>	Common Chickweed
<i>Vaccaria hispanica</i>	Cow Basil
<i>Velezia rigida</i>	Velezia
<b>Chenopodiaceae</b>	<b>Goosefoot Family</b>
<i>Blitum exsuccum</i>	
<i>Chenopodium album</i>	Fat Hen
<i>Chenopodium bonus-henricus</i>	Good King Henry
<i>Sasola kali</i>	Prickly Saltwort
<i>Suaeda maritima</i>	Annual Seablite
<i>Sueda vera</i>	Shrubby Seablite

Scientific name	Common name
<b>Cistaceae</b>	<b>Rock Rose Family</b>
<i>Cistus creticus</i>	Cretan Cistus
<i>Cistus crispus</i>	
<i>Cistus salvifolius</i>	Sage-leaved Cistus
<i>Fumana thymifolia</i>	Thyme-leaved Fumana
<i>Halimium atriplicifolium</i>	
<i>Halimium halimifolium</i>	
<i>Helianthemum croceum</i>	
<i>Helianthemum helianthemoides</i>	
<i>Tuberaria guttata</i>	Spotted Rockrose
<i>Tuberaria lignosa</i>	
<b>Convolvulaceae</b>	<b>Bindweed Family</b>
<i>Convolvulus althaeoides</i>	Mallow-leaved Bindweed
<i>Convolvulus arvensis</i>	Field Bindweed
<i>Convolvulus sabatius</i> subsp. <i>mauritanicus</i> •	
<i>Cuscuta campestris</i>	Field Dodder
<i>Cuscuta epithymum</i>	Common Dodder
<i>Cuscuta nivea</i>	
<i>Cuscuta triumvirati</i>	
<i>Ipomea purpurea</i>	A Morning Glory
<b>Crassulaceae</b>	<b>Stonecrop Family</b>
<i>Pistorinia breviflora</i> subsp. <i>breviflora</i> •	
<i>Sedum acre</i>	Biting Stonecrop
<i>Sedum album</i>	White Stonecrop
<i>Sedum amplexicaule</i> subsp. <i>tenuifolium</i>	
<i>Sedum dasyphyllum</i>	Thick-leaved Stonecrop
<i>Sedum hirsutum</i>	Hairy Stonecrop
<i>Sedum modestum</i>	
<i>Sedum sediforme</i>	
<i>Sempervivum atlanticum</i> •	
<i>Umbilicus horizontalis</i>	A Navelwort
<i>Umbilicus rupestris</i>	A Navelwort
<b>Cucurbitaceae</b>	<b>White Bryony Family</b>
<i>Bryonia dioica</i>	White Bryony
<i>Ecballium elaterium</i>	Squirting Cucumber
<b>Dipsacaceae</b>	<b>Teasel Family</b>
<i>Pteroccephalus depressus</i> •	
<i>Scabiosa atropurpurea</i>	
<i>Scabiosa columbaria</i>	Small Scabious
<b>Euphorbiaceae</b>	<b>Spurge Family</b>
<i>Euphorbia biumbellata</i>	Whorled Spurge
<i>Euphorbia characias</i>	Large Mediterranean Spurge
<i>Euphorbia helioscopia</i>	Sun Spurge
<i>Euphorbia villosa</i>	
<i>Mercurialis annua</i>	Annual Mercury

Scientific name	Common name
<i>Ricinus communis</i>	Castor Oil Plant
<b>Fabaceae</b>	<b>Pea Family</b>
<i>Adenocarpus anagyriifolius</i> •	
<i>Anagyris foetida</i>	Bean Trefoil
<i>Anthyllis vulneraria</i> subsp. <i>maura</i>	Kidney Vetch
<i>Anthyllis tetraphylla</i>	Bladder Vetch
<i>Astragalus ibrahimianus</i> •	
<i>Astragalus lusitanicus</i> subsp. <i>lusitanicus</i> •	
<i>Bituminaria bituminosa</i>	Pitch Trefoil
<i>Ceratonia siliqua</i>	Carob
<i>Colutea atlantica</i> •	a Bladder Senna
<i>Coronilla juncea</i>	Rush-like Scorpion Vetch
<i>Coronilla valentina</i> subsp. <i>glauca</i>	
<i>Coronilla varia</i>	Crown Vetch
<i>Coronilla viminalis</i> •	
<i>Cytisus balansae</i> subsp. <i>balansae</i> •	
<i>Dorycnium hirsutum</i>	Dorycnium
<i>Ebenus pinnata</i>	
<i>Erinacea anthyllis</i>	Hedgehog Broom
<i>Genista cinerea</i>	
<i>Hippocrepis multisiliquosa</i>	A Horseshoe Vetch
<i>Lathyrus aphaca</i>	Yellow Vetchling
<i>Lathyrus clymenum</i>	
<i>Lathyrus sphaericus</i>	
<i>Medicago arabica</i>	Spotted Medick
<i>Medicago lupulina</i>	Black Medick
<i>Medicago polymorpha</i>	Toothed Medick
<i>Medicago sativa</i>	Lucerne
<i>Medicago suffruticosa</i> subsp. <i>leiocarpa</i> •	
<i>Ononis atlantica</i> •	
<i>Ononis cristata</i>	
<i>Ononis natrix</i>	Large Yellow Rest-harrow
<i>Ononis spinosa</i>	Spiny Rest-harrow
<i>Retama monosperma</i> subsp. <i>monosperma</i> •	
<i>Robinia pseudoacacia</i>	False Acacia
<i>Scorpiurus muricatus</i>	Scorpiurus
<i>Spartium junceum</i>	Spanish Broom
<i>Trifolium campestre</i>	Hop Trefoil
<i>Trifolium fragiferum</i>	Strawberry Clover
<i>Trifolium humile</i>	
<i>Trifolium pratense</i>	Red Clover
<i>Trifolium repens</i>	White Clover
<i>Trifolium stellatum</i>	Star Clover
<i>Trifolium tomentosum</i>	Woolly Trefoil
<i>Vicia benghalensis</i>	
<i>Vicia cracca</i>	Tufted Vetch
<i>Vicia glauca</i>	
<i>Vicia hirsuta</i>	Hairy Tare
<i>Vicia tenuifolia</i> subsp. <i>villosa</i>	Fodder Vetch



Scientific name	Common name
<b>Fagaceae</b> <i>Quercus coccifera</i> <i>Quercus ilex</i>	<b>Beech Family</b> Kermes Oak Holm Oak
<b>Frankeniaceae</b> <i>Frankenia hirsuta</i>	<b>Sea Heath Family</b> A Sea Heath
<b>Fumariaceae</b> <i>Fumaria officinalis</i>	<b>Fumitory Family</b> Common Fumitory
<b>Gentianaceae</b> <i>Blackstonia perfoliata</i> <i>Centaurium erythraea</i>	<b>Gentian Family</b> Yellow Wort Common Centaury
<b>Geraniaceae</b> <i>Erodium cicutarium</i> <i>Erodium cossonii</i> • <i>Erodium guttatum</i> <i>Erodium malacoides</i> <i>Geranium lucidum</i> <i>Geranium dissectum</i> <i>Geranium malviflorum</i> <i>Geranium molle</i> <i>Geranium pyrenaicum</i> <i>Geranium robertianum</i>	<b>Geranium Family</b> Common Stork's-bill  Mallow-leaved Stork's-bill Shiny Crane's-bill Cut-leaved Crane's-bill Mallow-flowered Crane's-bill Dove's-foot Crane's-bill Pyrenean Crane's-bill Herb Robert
<b>Globulariaceae</b> <i>Globularia alypum</i> <i>Globularia liouvillei</i> <i>Globularia nainii</i>	<b>Globularia Family</b> Shrubby Globularia
<b>Grossulariaceae</b> <i>Ribes uva-crispa</i>	<b>Currant Family</b> Gooseberry
<b>Hypericaceae</b> <i>Hypericum perforatum</i> <i>Hypericum pubescens</i>	<b>St John's-wort Family</b> Perforate St John's-wort
<b>Juglandaceae</b> <i>Juglans regia</i>	<b>Walnut Family</b> Walnut
<b>Lamiaceae</b> <i>Ajuga iva</i> <i>Ballota nigra</i> <i>Hyssopus officinalis</i> var. <i>maroccanus</i> • <i>Lamium amplexicale</i> <i>Lavandula dentata</i> <i>Lavandula multifida</i> <i>Lavandula pedunculata</i> subsp. <i>atlantica</i> • <i>Lavandula stoechas</i> <i>Marrubium vulgare</i>	<b>Mint Family</b>  Black Horehound  Henbit Deadnettle Toothed Lavender Cut-leaved Lavender  French Lavender White Horehound

Scientific name	Common name
<i>Mentha gattefossei</i> •	
<i>Mentha suaveolens</i>	
<i>Nepeta atlantica</i> •	
<i>Origanum vulgare</i>	Marjoram
<i>Prasium majus</i>	Prasium
<i>Prunella vulgaris</i>	Self-heal
<i>Rosmarinus officinalis</i>	Rosemary
<i>Salvia taraxacifolia</i> •	
<i>Salvia verbenaca</i>	Wild Clary
<i>Satureja acinos</i>	Basil Thyme
<i>Satureja alpina</i> subsp. <i>meridionalis</i>	
<i>Satureja atlantica</i> •	
<i>Satureja filiformis</i>	
<i>Satureja graeca</i>	
<i>Satureja nepeta</i>	Lesser Calamint
<i>Satureja rotundifolia</i>	
<i>Satureja vulgaris</i>	Wild Basil
<i>Scutellaria orientalis</i>	Eastern Scullcap
<i>Stachys saxicola</i>	
<i>Teucrium capitatum</i>	
<i>Teucrium chamaedrys</i>	Wall Germander
<i>Teucrium fruticans</i>	Shrubby Germander
<i>Teucrium polium</i>	Felty Germander
<i>Thymus atlanticus</i> •	
<i>Thymus satureioides</i> •	
<b>Linaceae</b>	<b>Flax Family</b>
<i>Linum bienne</i>	Pale Flax
<b>Lythraceae</b>	<b>Loosetrife Family</b>
<i>Lythrum hyssopifolia</i>	Grass-poly
<i>Lythrum portula</i>	Water Purslane
<b>Malvaceae</b>	<b>Mallow Family</b>
<i>Malva neglecta</i>	Dwarf Mallow
<i>Malva sylvestris</i>	Common Mallow
<b>Moraceae</b>	<b>Fig Family</b>
<i>Ficus carica</i>	Fig
<b>Onagraceae</b>	<b>Willowherb Family</b>
<i>Epilobium hirsutum</i>	Great Willowherb
<i>Epilobium obscurum</i>	Short-fruited Willowherb
<i>Epilobium parviflorum</i>	Hoary Willowherb
<i>Epilobium psilotum</i> •	
<i>Epilobium tetragonum</i>	Square-stemmed Willowherb
<b>Oleaceae</b>	<b>Olive Family</b>
<i>Fraxinus angustifolia</i>	Narrow-leaved Ash
<i>Jasminum fruticans</i>	Wild Jasmine
<i>Olea euopaea</i>	Wid Olive
<i>Phillyrea latifolia</i>	Mock Privet

<b>Scientific name</b>	<b>Common name</b>
<i>Phillyrea angustifolia</i>	Narrow-leaved Mock Privet
<b>Orobanchaceae</b>	<b>Broomrape Family</b>
<i>Orobanche alsatica</i>	
<i>Orobanche minor</i>	Lesser Broomrape
<i>Orobanche ramosa</i>	Branched Broomrape
<b>Oxalidaceae</b>	<b>Wood-sorrel Family</b>
<i>Oxalis corniculata</i>	Procumbent Yellow Sorrel
<i>Oxalis pes-caprae</i>	Bermuda Buttercup
<b>Papaveraceae</b>	<b>Poppy Family</b>
<i>Glaucium corniculatum</i>	Red Horned-poppy
<i>Glaucium flavum</i>	Yellow Horned-poppy
<i>Papaver atlanticum</i> subsp. <i>atlanticum</i> •	
<i>Papaver dubium</i>	Long-headed Poppy
<i>Papaver hybridum</i>	Rough Poppy
<i>Papaver rhoeas</i>	Common Poppy
<b>Plantaginaceae</b>	<b>Plantain Family</b>
<i>Plantago afra</i>	
<i>Plantago coronopus</i>	Buck's-horn Plantain
<i>Plantago lagopus</i>	
<i>Plantago major</i>	Greater Plantain
<b>Plumbaginaceae</b>	<b>Thrift family</b>
<i>Armeria alliacea</i> •	A Thrift
<i>Armeria atlantica</i> •	A Thrift
<i>Limonium sinuatum</i>	Wavy-leaved Sea Lavender
<i>Plumbago europaea</i>	European Plumbago
<b>Polygalaceae</b>	<b>Milkwort Family</b>
<i>Polygala balansae</i> •	
<b>Polygonaceae</b>	<b>Dock Family</b>
<i>Oxyria digyna</i>	Mountain Sorrel
<i>Polygonum aviculare</i>	Knotgrass
<i>Polygonum bistorta</i>	Bistort
<i>Rumex acetosa</i>	Common Sorel
<i>Rumex acetosella</i>	Sheep's Sorrel
<i>Rumex buchehalophorus</i>	
<i>Rumex scutatus</i>	French Sorrel
<b>Portulacaceae</b>	<b>Purslane Family</b>
<i>Montia fontana</i>	Blinks
<b>Primulaceae</b>	<b>Primrose Family</b>
<i>Anagallis arvensis</i>	Scarlet Pimpernel
<i>Anagallis foemina</i>	Blue Pimpernel
<i>Anagallis monelli</i> subsp. <i>linifolia</i>	
<i>Anagallis monelli</i> subsp. <i>monelli</i>	
<i>Asterolinon linum-stellatum</i>	Asterolinon

**Scientific name****Common name****Ranunculaceae**

*Aconitum lycotonum*  
*Aquilegia vulgaris* var. *ballii*•  
*Clematis cirrhosa*  
*Clematis flammula*  
*Consolida ajacis*  
*Delphinium balansae*•  
*Nigella damascena*  
*Nigella hispanica*  
*Ranunculus acris*  
*Ranunculus arvensis*  
*Ranunculus bulbosus*  
*Ranunculus dyris* •  
*Ranunculus repens*  
*Ranunculus scleratus*  
*Ranunculus trichophyllus*

**Buttercup Family**

Monkshood  
A Columbine  
Virgin's Bower  
Fragrant Clematis  
  
Meadow Buttercup  
Corn Buttercup  
Bulbous Buttercup  
  
Creeping Buttercup  
Celery-leaved Crowfoot  
Thread-leaved Water Crowfoot

**Resedaceae**

*Reseda alba*  
*Reseda luteola*  
*Reseda phyteuma*  
*Sesamoides purpurascens*

**Mignonette Family**

White Mignonette  
Weld  
Corn Mignonette

**Rhamnaceae**

*Rhamnus alpinus*  
*Rhamnus alaternus*  
*Rhamnus lycioides* susp. *atlantica*•  
*Ziziphus lotus*

**Buckthorn Family**

Alpine Buckthorn  
Mediterranean Buckthorn

**Rosaceae**

*Alchemilla atlantica*•  
*Amelanchier ovalis*  
*Cotoneaster granatensis*  
*Crataegus monogyna*  
*Crataegus laciniata*  
*Potentilla recta*  
*Prunus prostrata*  
*Rosa canina*  
*Rosa micrantha*  
*Rosa sempervirens*  
*Rubus ulmifolius*  
*Sanguisorba minor*

**Rose Family**

A Lady's Mantle  
Snowy Mespilus  
  
Hawthorn  
  
Rock Cherry  
Dog Rose  
  
Bramble  
Salad Burnet

**Rubiaceae**

*Asperula aristata*  
*Asperula arvensis*  
*Crucianella maritima*  
*Cruciata laevipes*  
*Galium aparine*  
*Galium lucidum*  
*Galium mollugo*  
*Galium parisiense*

**Bedstraw Family**

Blue Woodruff  
Coastal Crucianella  
Crosswort  
Cleavers  
  
Hedge Bedstraw  
Wall Bedstraw

<b>Scientific name</b>	<b>Common name</b>
<i>Putoria calabrica</i>	Putoria
<i>Rubia peregrina</i>	Wild Madder
<i>Sherardia arvensis</i>	Field Madder
<i>Valantia muralis</i>	
<b>Rutaceae</b>	<b>Rue Family</b>
<i>Ruta angustifolia</i>	Narrow-leaved Rue
<b>Salicaceae</b>	<b>Willow Family</b>
<i>Populus alba</i>	White Poplar
<i>Populus nigra</i>	Black Poplar
<i>Salix alba</i>	White Willow
<i>Salix cinerea</i>	Grey Willow
<i>Salix purpurea</i>	Purple Willow
<b>Santalaceae</b>	<b>Sandalwood Family</b>
<i>Osyris alba</i>	Osyris
<b>Sapotaceae</b>	
<i>Argania spinosa</i>	Argan
<b>Saxifragaceae</b>	<b>Saxifrage Family</b>
<i>Saxifraga globulifera</i>	
<i>Saxifraga granulata</i>	Meadow Saxifrage
<i>Saxifraga maireana</i> •	
<b>Scrophulariaceae</b>	<b>Figwort Family</b>
<i>Chaenorrhinum rubrifolium</i>	
<i>Chaenorrhinum flexuosum</i>	
<i>Digitalis lutea</i> subsp. <i>atlantica</i> •	Small Yellow Foxglove
<i>Kickxia commutata</i>	
<i>Linaria amethystea</i> •	
<i>Linaria maroccana</i> •	
<i>Linaria micrantha</i>	
<i>Linaria pelisseriana</i>	Jersey Toadflax
<i>Linaria simplex</i>	
<i>Linaria tristis</i> var. <i>lurida</i> •	
<i>Misopates orontium</i>	Weasel Snout
<i>Parentucellia viscosa</i>	Yellow Bartsia
<i>Parentucellia latifolia</i>	
<i>Satureja alpina</i> subsp. <i>meridionalis</i>	
<i>Satureja atlantica</i>	
<i>Scrophularia canina</i>	French Figwort
<i>Scrophularia auriculata</i>	
<i>Scrophularia laevigata</i>	
<i>Scrophularia sambucifolia</i>	Elder-leaved Figwort
<i>Verbascum rotundifolium</i>	A Mullein
<i>Verbascum sinuatum</i>	Wavy-leaved Mullein
<i>Veronica anagallis-aquatica</i>	Water Speedwell
<i>Veronica arvensis</i>	Field Speedwell
<i>Veronica beccabunga</i>	Brooklime
<i>Veronica hederifolia</i>	Ivy-leaved Speedwell

<b>Scientific name</b>	<b>Common name</b>
<i>Veronica repens</i> var. <i>cyanea</i> • <i>Veronica rosea</i> • <i>Veronica verna</i>	Spring Speedwell
<b>Solanaceae</b>	<b>Nightshade Family</b>
<i>Datura stramonium</i>	Thornapple
<i>Hyocyamus albus</i>	White Henbane
<i>Hyocyamus niger</i>	Henbane
<i>Lycium barbarum</i>	Dukeof Argyll's Teaplant
<i>Lycium intricatum</i>	
<i>Nicotiana glauca</i>	Shrub Tobacco
<i>Solanum nigrum</i>	Black Nightshade
<i>Solanum villosum</i>	Hairy Nightshade
<b>Tamaricaceae</b>	<b>Tamarisk Family</b>
<i>Tamarix africana</i>	A Tamarisk
<b>Thymelaceae</b>	<b>Daphne Family</b>
<i>Daphne laureola</i>	Spurge-laurel
<i>Daphne gnidium</i> subsp. <i>mauritanica</i> •	
<b>Ulmaceae</b>	<b>Elm Family</b>
<i>Celtis australis</i>	Nettle Tree
<b>Urticaceae</b>	<b>Nettle Family</b>
<i>Parietaria judaica</i>	Pellitory-of-the-Wall
<i>Urtica membranacea</i>	Membranous Nettle
<i>Urtica pilulifera</i>	Roman Nettle
<i>Urtica urens</i>	Small Nettle
<b>Valerianaceae</b>	<b>Valerian Family</b>
<i>Centranthus angustifolius</i>	Narrow-leaved Valerian
<i>Centranthus calcitrapa</i>	
<i>Centranthus lecoqii</i> subsp. <i>maroccanus</i> •	
<i>Valeriana tuberosa</i>	Tuberous Valerian
<i>Valerianella locusta</i>	Corn Salad
<b>Verbenaceae</b>	<b>Verbena Family</b>
<i>Verbena officinalis</i>	Vervain
<i>Vitex agnus-castus</i>	Chaste Tree
<b>Violaceae</b>	<b>Violet Family</b>
<i>Viola kitaibeliana</i>	Dwarf Pansy
<i>Viola odorata</i>	Sweet Violet
<i>Viola palustris</i>	Marsh Violet
<i>Viola parvula</i>	
<b>Zygophyllaceae</b>	<b>Caltrop Family</b>
<i>Peganum harmala</i>	Peganum
<i>Tribulus terrestris</i>	Maltese Cross

**Scientific name****Common name****LILIIDAE****MONOCOTYLEDONS****Agavaceae***Agave americana***Agave Family**

Century Plant

**Amaryllidaceae***Narcissus jeanmonodii*•*Narcissus rupicola* subsp. *watieri*•**Daffodil Family****Anthericaceae***Anthericum baeticum***St. Bernard's Lily Family**

A St. Bernard's Lily

**Araceae***Arisarum vulgare***Arum Family**

Friar's Cowl

**Arecaceae***Chamaerops humilis* var. *glauca**Phoenix canariensis**Phoenix dactylifera***Palm Family**

Fan Palm

Canary Palm

Date Palm

**Asparagaceae***Asparagus albus***Asparagus Family**

White Asparagus

**Asphodelaceae***Asphodelus aestivus**Asphodelus fistulosus**Asphodelus tenuifolius***Asphodel Family**

Common Asphodel

Hollow-leaved Asphodel

Annual Asphodel

**Colchicaceae***Colchicum lusitanum*•**Colchicum Family****Cyperaceae***Cyperus longus**Isolepis cernua*

Sweet Galingale

Slender Club-rush

**Hyacinthaceae***Hyacinthoides hispanica* subsp. *algeriense**Muscari comosum**Orithogalum algeriense**Ornithogalum pyrenaicum**Urginea maritima* var. *maura***Hyacinth Family**

Spanish Bluebell

Tassel Hyacinth

A Star-of-Bethlehem

Spiked Star-of-Bethlehem

Sea Squill

**Iridaceae***Gladiolus byzantinus**Iris florentina**Iris germanica***Iris Family**

Byzantine Gladiolus

Florentine Iris

German Iris

**Juncaceae***Juncus acutus**Juncus bufonius**Juncus effusus**Juncus inflexus***Rush Family**

Sharp Rush

Toad Rush

Soft Rush

Hard Rush

**Scientific name****Common name****Liliaceae***Fritillaria messanensis* var. *atlantica*•**Lily Family****Orchidaceae***Dactylorhiza elata* subsp. *sesquipedalis**Orchis mascula* subsp. *olbiensis***Orchid Family**

Robus Marsh Orchid

Early Purple Orchid

**Poaceae***Aegilops geniculata**Aegilops triuncialis**Alopecurus aequalis**Alopecurus geniculatus**Ammophila arenaria**Anthoxanthum odoratum**Arrhenatherum elatius**Arundo donax**Avenula bromoides**Briza maxima**Bromus sterilis**Catapodium rigidum**Cynodon dactylon**Deschampsia cespitosa**Glyceria notata**Holcus lanatus**Lagurus ovatus**Lamarckia aurea**Polypogon monspeliensis**Stipa tenacissima**Vulpia unilateralis**Vulpia geniculata***Grass Family**

Orange Foxtail

Marsh Foxtail

Marram

Sweet Vernal Grass

False Oat-grass

Giant Reed

Large Quaking Grass

Barren Brome

Fern Grass

Bermuda Grass

Tufted Hair-grass

A Flote Grass

Yorkshire Fog

Harestail Grass

Golden Dog's-tail

Annual Beard-grass

Esparto Grass

Mat-grass Fescue

**Potamogetonaceae***Potamogeton natans***Pondweed Family**

Broad-leaved Pondweed

**Ruscaceae***Ruscus aculeatus***Butcher's Broom Family**

Butcher's Broom

**Smilacaceae***Smilax aspera***Smilax Family**

Smilax



Birds (✓ = recorded but not counted; H = heard only)

	Common name	Scientific name	May/June															
			22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	
1	Great Cormorant	<i>Phalacrocorax carbo maroccanus</i>														✓		
2	Cattle Egret	<i>Bubulcus ibis</i>		✓	✓	✓										✓	✓	
3	Little Egret	<i>Egretta garzetta</i>															✓	
4	Grey Heron	<i>Ardea cinerea</i>															✓	
5	Spoonbill	<i>Platalea leucorodia</i>															17	
6	White Stork	<i>Ciconia ciconia</i>	✓	✓	✓											✓		
7	Short-toed Eagle	<i>Circaetus gallicus</i>												✓				
8	Northern Sparrowhawk	<i>Accipiter nisus</i>									✓		✓	✓				
9	Long-legged Buzzard	<i>Buteo rufinus cirtensis</i>				2	✓	✓	✓				2	2				
10	Booted Eagle	<i>Hieraaetus pennatus</i>	✓	□		✓	✓						✓	✓	✓			
11	Barbary Falcon	<i>Falco pelegrinoides</i>									✓							
12	Eleonora's Falcon	<i>Falco eleonora</i>														10	100	
13	Common Kestrel	<i>Falco tinnunculus</i>	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
14	Barbary Partridge	<i>Alectoris barbara</i>				H				H	✓							
15	Black-winged Stilt	<i>Himantopus himantopus</i>															✓	
16	Ringed Plover	<i>Charadrius hiaticula</i>															✓	
17	Little Ringed Plover	<i>Charadrius dubius</i>															✓	
18	Kentish Plover	<i>Charadrius alexandrinus</i>															✓	
19	Sanderling	<i>Calidris alba</i>												□			10	
20	Dunlin	<i>Calidris alpina</i>															✓	
21	Little Stint	<i>Calidris minuta</i>															✓	
22	Greenshank	<i>Tringa nebularia</i>															✓	
23	Western Yellow-legged Gull	<i>Larus michahellis</i>														✓	✓	✓
24	Lesser Black-backed Gull	<i>Larus fuscus</i>															✓	
25	Rock Dove	<i>Columba livia</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
26	Stock Dove	<i>Columba oenas</i>																
27	Woodpigeon	<i>Columba palumbus</i>	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	
28	Collared Dove	<i>Streptopelia decaocto</i>	✓	✓	✓											✓	✓	✓
29	Turtle Dove	<i>Streptopelia turtur</i>		H	✓									2	✓	✓		
30	Cuckoo	<i>Cuculus canorus</i>													✓			

	Common name	Scientific name	May/June														
			22	23	24	25	26	27	28	29	30	31	1	2	3	4	5
31	Scops Owl	<i>Otus scops</i>												✓			
32	Nightjar	<i>Caprimulgus europaeus</i>				H						H		✓	H		
33	Little Swift	<i>Apus affinis</i>	✓	✓	✓										✓		
34	Common Swift	<i>Apus apus</i>													✓	✓	
35	Pallid Swift	<i>Apus pallidus</i>	✓	✓	✓										✓		
36	European Roller	<i>Coracias garrulus</i>			2										✓		
37	Levaillant's Woodpecker	<i>Picus vaillantii</i> •				3	✓		H	✓	✓		✓	H			
38	Great-spotted Woodpecker	<i>Dendrocopos major</i>			✓	H			✓	✓			✓				
39	Woodlark	<i>Lullula arborea</i>					✓	✓									
40	Crested Lark	<i>Galerida cristata</i>			✓										✓	✓	✓
41	Thekla Lark	<i>Galerida theklae</i>						✓									
42	Shore Lark	<i>Eremophila alpestris</i>					✓										
43	Crag Martin	<i>Ptyonoprogne rupestris</i>				✓	✓	✓	✓	✓	✓	✓	✓	✓			
44	House Martin	<i>Delichon urbica</i>							✓	✓		✓					
45	Red-rumped Swallow	<i>Hirundo daurica</i>			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
46	Swallow	<i>Hirundo rustica</i>		✓	✓									✓	✓		
47	Tawny Pipit	<i>Anthus campestris</i>						✓									
48	Moroccan Wagtail	<i>Motacilla subpersonata</i> •															✓
49	Grey Wagtail	<i>Motacilla cinerea</i>			✓	✓			✓	✓	✓	✓	✓	✓			
50	Common Bulbul	<i>Pycnonotus barbatus</i>	✓	✓	✓	✓			✓					✓	✓	✓	✓
51	Alpine Accentor	<i>Prunella collaris</i>										10					
52	Nightingale	<i>Luscinia megarhynchos</i>		H	H	✓			H	H	H		H	✓			
53	Robin	<i>Erithacus rubecula</i>		✓	✓	✓							✓	✓			
54	Black Redstart	<i>Phoenicurus ochruros</i>					✓	✓	✓	✓	✓	✓	✓				
55	Moussier's Redstart	<i>Phoenicurus moussieri</i> •			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
56	Seebohm's Wheatear	<i>Oenanthe oenanthe seebohmi</i> •					✓	✓									
57	Black-eared Wheatear	<i>Oenanthe hispanica</i>			✓	✓									✓		
58	Black Wheatear	<i>Oenanthe leucura</i>			□	✓			✓	✓	✓				□		
59	Rock Thrush	<i>Monticola saxatilis</i>						✓									
60	Blue Rock Thrush	<i>Monticola solitarius</i>				✓	✓	✓		✓							
61	Blackbird	<i>Turdus merula</i>	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
62	Mistle Thrush	<i>Turdus viscivorus</i>					✓	✓			✓						

	Common name	Scientific name	May/June														
			22	23	24	25	26	27	28	29	30	31	1	2	3	4	5
63	Cetti's Warbler	<i>Cettia cetti</i>		✓	✓	✓											
64	Fan-tailed Warbler	<i>Cisticola juncidis</i>													H		
65	Western Olivaceous Warbler	<i>Hippolais opaca</i>			H					H				✓		H	
66	Blackcap	<i>Sylvia atricapilla</i>		✓	✓	✓	✓	✓	✓	✓	✓		✓	H	✓		
67	Sardinian Warbler	<i>Sylvia melanocephala</i>			H						✓		✓	✓	✓		
68	Tristram's Warbler	<i>Sylvia deserticola</i> •			✓								✓	✓			
69	(Western) Subalpine Warbler	<i>Sylvia cantillans inornata</i>			✓	H				✓	✓	H					
70	Firecrest	<i>Regulus ignicapillus</i>				✓	✓			H		✓					
71	Spotted Flycatcher	<i>Muscicapa striata</i>			✓	✓				✓	✓	✓		✓	✓	✓	
72	Coal Tit	<i>Periparus ater</i>				✓	✓			✓	✓	✓	✓	✓	✓		
73	Great Tit	<i>Parus major</i>			✓	✓	✓			✓		✓	H	✓	✓	✓	
74	Blue Tit (African)	<i>Cyanistes caeruleus ultramarinus</i>			✓	✓				✓	✓	✓		✓	✓	✓	
75	Short-toed Treecreeper	<i>Certhia brachydactyla</i>					✓										
76	Wren	<i>Troglodytes troglodytes</i>			H	✓				✓	H		✓	✓	✓		
77	Dipper	<i>Cinclus cinclus</i>								✓	✓		✓		✓		
78	Southern Grey Shrike	<i>Lanius meridionalis</i>			✓											✓	
79	Woodchat Shrike	<i>Lanius senator</i>														✓	
80	Jay	<i>Garrulus glandarius</i>													✓	✓	
81	Magpie	<i>Pica pica mauritanica</i>	✓			✓	✓					✓	✓	✓	✓		
82	Chough	<i>Pyrrhonorax pyrrhonorax</i>					✓	✓	✓			✓	✓	✓	✓		
83	Alpine Chough	<i>Pyrrhonorax graculus</i>					✓	✓	✓	✓	✓	✓	✓	✓	□		
84	Raven	<i>Corvus corax</i>					✓				✓						
85	Golden Oriole	<i>Oriolus oriolus</i>			✓	✓											
86	Spotless Starling	<i>Sturnus unicolor</i>	✓	✓	✓											✓	✓
87	Rock Sparrow	<i>Petronia petronia</i>					✓	✓									
88	Spanish Sparrow	<i>Passer hispaniolensis</i>		✓													
89	House Sparrow	<i>Passer domesticus</i>	✓	✓	✓	✓			✓	✓	✓	✓		✓	✓	✓	✓
90	Chaffinch	<i>Fringilla coelebs africana</i>			✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	
91	Serin	<i>Serinus serinus</i>		H	H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
92	Linnet	<i>Acanthis cannabina</i>		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓
93	Goldfinch	<i>Carduelis carduelis</i>				✓							H	✓	✓	✓	
94	Greenfinch	<i>Carduelis chloris</i>		✓	H	✓	✓			✓					✓		

	Common name	Scientific name	May/June														
			22	23	24	25	26	27	28	29	30	31	1	2	3	4	5
95	Hawfinch	<i>Coccothraustes coccothraustes</i>												✓			
96	African Crimson-winged Finch	<i>Rhodopechys alienus</i> •							✓								
97	Corn Bunting	<i>Miliaria calandra</i>			✓												
98	House Bunting	<i>Emberiza striolata sahari</i>	✓	✓	✓				✓	✓	✓	✓		✓	✓	✓	✓
99	Rock Bunting	<i>Emberiza cia</i>			✓	✓	✓			✓	✓	✓	✓	✓	✓		
100	Cirl Bunting	<i>Emberiza cirlus</i>				H										✓	

## Mammals

1	Barbary Ground Squirrel	<i>Atlantoxerus getulus</i> •				✓		✓			✓	✓	✓				
2	Red Fox	<i>Vulpes vulpes</i>								H	H						

## Reptiles

1	Moorish Gecko	<i>Tarentola mauritanica</i>				☐	✓	✓	✓	✓		✓					
2	High Atlas Day Gecko	<i>Quedenfeldtia trachyblepharus</i> •				✓	✓										
3	Atlas Agama	<i>Agama impalearis</i> •												4			
4	Spiny-footed Lizard	<i>Acanthodactylus erythrurus</i> •														✓	
5	Atlas Wall Lizard	<i>Podarcis vaucheri</i> •			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		
6	Moroccan Eyed Lizard	<i>Timon tangitanus</i> •			✓		☐	☐	☐	☐	☐	☐	✓	☐			
7	Moroccan Rock Lizard	<i>Lacerta perspicillata</i> subsp. <i>chabanaudi</i> •					✓										
8	Atlas Dwarf Lizard	<i>Atlantolacerta andreanszkyi</i> •				☐	✓										
9	Mediterranean Chameleon	<i>Chamaeleo chamaeleon</i>												✓			
10	Montpellier Snake	<i>Malpolon monspessulanus</i>								✓							
11	Spur-thighed Tortoise	<i>Testudo graeca</i>														✓	
12	Spanish Terrapin	<i>Mauremys leprosa</i>		✓													

## Amphibians

1	Stripeless Tree Frog	<i>Hyla meridionalis</i>					✓										
2	Saharan Green Frog	<i>Pelophylax saharicus</i> •			✓		✓	✓	H	H	H			H	H		
3	North African Green Toad	<i>Bufo mauritanicus</i> •			✓	✓	✓						✓				

## Butterflies

1	Large White	<i>Pieris brassicae</i>	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	
2	Small White	<i>Pieris rapae mauretanicus</i> •	☐	☐	☐	☐	☐				☐	☐	☐	✓	✓	✓	✓
3	Green-veined White	<i>Pieris napi segonzaci</i> •											✓				

	Common name	Scientific name	May/June															
			22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	
4	Bath White	<i>Pontia daplidice</i>								✓	✓	✓		✓	✓			
5	Clouded Yellow	<i>Colias crocea</i>			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
6	Berger's Clouded Yellow	<i>Colias alfacariensis</i>					✓											
7	Cleopatra	<i>Gonepteryx cleopatra</i>			✓	✓	✓				✓			✓	✓			
8	False Ilex Hairstreak	<i>Satyrium esculi mauretanicum</i> •													✓			
9	Small Copper	<i>Lycaena phlaeas</i>			✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
10	Moroccan Copper	<i>Thersamonia phoebus</i> •			☐	☐	☐	☐	☐	☐	☐	✓		☐	☐	☐		
11	Lang's Short-tailed Blue	<i>Leptotes pirithous</i>													✓		✓	
12	Holly Blue	<i>Celastrina argiolus</i>			✓										✓			
13	Mazarine Blue	<i>Cyaniris semiargus maroccana</i> •			☐	✓									☐			
14	Atlas Blue	<i>Plebicula atlantica atlantica</i> •					✓	✓										
15	Brown Argus	<i>Aricia agestis</i>			✓	✓	☐	☐			✓				✓			
16	Comma	<i>Polygonia c-album</i>											✓					
17	Red Admiral	<i>Vanessa atalanta</i>																✓
18	Cardinal	<i>Argynnis pandora seitze</i> •				✓	✓								✓			
19	Queen of Spain Fritillary	<i>Issoria lathonia</i>				✓					✓			✓				
20	Glanville Fritillary	<i>Melitaea cinxia atlantis</i> •					✓	✓	✓	✓								
21	Moroccan Marbled White	<i>Melanargia galathea lucasi</i> •					✓		✓		✓		✓	✓				
22	Giant Grayling	<i>Berberia abdelkadar</i> •				✓	✓	✓	✓	✓	✓				✓			
23	Dark Giant Grayling	<i>Berberia lambessanus</i> •				✓	✓	✓	☐	☐	☐				☐			
24	Vaucher's Heath	<i>Coenonympha vaucheri</i> •						✓	✓	✓	✓	✓	✓	✓				
25	Speckled Wood	<i>Pararge aegeria</i>			✓	✓	✓				✓			✓	✓			
26	Wall Brown	<i>Lasiommata megera</i>				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
27	Small Skipper	<i>Thymelicus sylvestris iberica</i>								✓		✓			✓			
28	Moroccan Small Skipper	<i>Thymelicus hamza</i> •						✓	☐		☐				☐			
29	Marbled Skipper	<i>Carcharodus lavantherae</i>									✓							

## Moths

1	Hummingbird Hawk Moth	<i>Macroglossum stellatarum</i>															✓	✓	
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