

# Spring Flowers of Western Andalucia

Naturetrek Tour Report

21 – 28 March 2007

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Spanish Festoon



*Narcissus cuatrecasasi*

Images and report compiled by Sophie Miller



Naturetrek Cheriton Mill Cheriton Alresford Hampshire SO24 0NG England

T: +44 (0)1962 733051

F: +44 (0)1962 736426

E: [info@naturetrek.co.uk](mailto:info@naturetrek.co.uk)

W: [www.naturetrek.co.uk](http://www.naturetrek.co.uk)

Tour leader:	Sophie Miller
Tour participants:	Kit Surrey Meg Surrey Ross Baker Lynn Whitfield Sue Bailey Chantal Pallot Alan Woods Beryl Ratcliffe

## Day 1

Wednesday 21<sup>st</sup> March

Leaving Malaga airport we found a delightful picnic spot just off the roadside. Within a few metres of the cheese and wine there were hidden yellow anemones *Anemone palmata*, yellow bee orchid *Ophrys lutea*, Barbary nut *Gyandris sisyriacium* and remains of *Asphodelus aestivus*. After lunch a brief perusal found, typical Southern Spanish flora of *Aristolochia baetica* (host plant of the butterfly Spanish festoon), *Cistus albidus* and *C. monspeliensis*, *Helianthemum organifolium*, Turpentine tree *Pistachio terebinthes*, Tree germander *Teucrium fruticans* and the fan palm *Chamaerops humilis*. Up the slope a marvelous pink butterfly orchid *Orchis papilionacea* was found plus bee orchid *Ophrys apifera* and bumblebee orchid *Ophrys bombyliflora*. Scattered over a path was a pretty blue orchid, *Ophrys iricolor* subsp. *duriensis* (subsp. *atlantica*), a plant of Southern Iberia and a very localized species. Many Spanish festoon butterflies were out enjoying the heat of the sun as much as we were. Dartford warbler, chaffinch and long-tailed tits were flying about the scrub. White clumps in the pines were noticed and housed the larvae of the pine processionary moth. A booted eagle was also spotted flying into the sun.

After lunch we continued our journey to Ronda with marvelous views of orange and lemon groves and a very high battalion of wind turbines. Roadsides verges had swathes of yellow of Spanish broom *Spartinum junceum* and acacia trees. As we climbed higher lush arable fields stood out against the dark red soil of the sandstone and olive groves. Arrival at the Finca was welcoming with pots of tea soon followed by a well-deserved sherry!

## Day 2

Thursday 22<sup>nd</sup> March

For our first day we explored the road to El Burgo which was bordered at the start by pink mats of common stork's-bill *Erodium cicutarium* and rather bashed Junio iris *Iris planifolia*. Driving over the pass at 1190m, the Puerto del Viento was certainly breezy and also freezing in the shade! A gully and rock face revealed the dainty yellow *Viola demetria* hidden in the rocks with rustyback *Ceterach officinarum* fern and the occasional Spanish bluebell *Hyacinthoides hispanicus*. Mistletoe *Viscum cruciatum* with its bright red berries and Virgins bower *Clematis cirrhosa* were draped over stunted hawthorn. Across the road to a bleak slope were our first daffodils, delicate *Narcissi assoanus*. Choughs, Griffon vulture and a displaying pair of black wheatears were seen here. Onto a look out over the valley and *Muscari comosum* Tassel hyacinth and *Linaria aeruginea* were scattered amongst the carob trees, giant fennel and limestone rock. Sweet alison *Lobularia maritima* was hanging beneath the cliff and a pretty pink *Stachys circinata* also found.

A short walk by a stream just outside El Burgo revealed *Ophrys tenthredinifera* the spectacular sawfly orchid on the edge of the gravel road. The somber bee orchid was found, *Ophrys fusca* subsp. *lupercalis* with its brown coloured lobellum and many mirror orchids *Ophrys speculum*, and low growing white star of Bethlehem *Ornithogallum umbellatum*.

Onto lunch through the white bustling village of Ardales, passing the reservoir to our left we found a lovely look out at Embalse de Gaitanejo. At our feet were glorious *Fritillaria lusitanica*, fan-lipped orchid *Ophrys collina*, *O. tenthredinifera* and a few brown bells of *Dipacardia serotinum*. After lunch some nearby explorations found man orchid *Aceras anthropophorum*, naked man orchid *Orchis italica*, *Ophrys speculum* and *Ophrys fusca*. *Muscari neglectum* was scattered throughout. A stroll through the black pine woods found fumitory-like *Rupicapnos africana* on the rocks (sandstone and sedimentary mixes), a dark Orabanche on the hillside, *Reseda alba*, *Asparagus acutiflorus* in flower and much *Aristolochia baetica*. Jersey Fern *Anogramma leptophylla* was found isolated on a rock and many *Allium roseum*, *A. neopolitanum* and *A. triquetum* with a marvellous group of *O. tenthredinifera* bordering the roadpath up the hill. At the top awaited us a rather nice tall specimen of *Fritillaria lusitanica*.

## Day 3

Friday 23<sup>rd</sup> March

Setting off in lovely clear skies (again) we headed to Cueva del Gato for our first stop of the day, finding crag martins and alpine swifts swooping from the cave entrance feeding in the river. Two falcons were noted swinging across the cliff tops, peregrine falcon and a possible hen harrier. Crossing over the bridge, passing the 'huge barbel' in the water, we found a single specimen of osyris, from the otherwise tropical based family of Santalaceae. The lush green of bear's breaches *Acanthus mollis*, with lovely *Clematis cirrhosa* were scattered over the hillside. Patches of the pink *Erodium chium* and occasional *Antirrhinum majus* were near the pathside, with leftovers of Barbary nut in clumps on the grassy bank with *Centaurea pullata*. Moving on we climbed up to Cueva de la Pilata and while most of us clambered through the stalagmites and stalactites with the atmospheric gas lamps marveling at the wall paintings, those outside found redstart and rock bunting. The car park was a good spot for Iberian wall lizards and butterflies such as brimstone plus an unnamed hopping spider!

Back through the small village of Benaolan we headed up to the top of the limestone crags. The rocky roadside revealed *Orchis mascula* subsp. *olbiensis*, Spanish bluebell, *Ornithogallum reverchonii* and meadow saxifrage *Saxifraga granulata*. A Rhamnus bush lay flattened on the rock with Spanish thistle *Ptilostemon hispanica* and *Sedum altissima*. This was also a good bird spot with black red start, goldfinch and blue rock thrush plus a few choughs.

Our lunchtime spot at the top of the hill above the failed Hundidero Dam was clothed in carpets of *Orchis mascula* subsp. *olbiensis*. Most of us headed to explore the upper cave, the other end of the Cueva de la Pilata finding the pungent bean trefoil *Anagyris foetida*, others roamed the hills and Beryl hunted for the edible asparagus on the verge, *Asparagus officinalis* that the locals were collecting. A good view of a Griffon vulture was seen plus a marvelous hen harrier passed us by at lunchtime. We headed home via a lichen clad cork wood *Quercus suber* with an understorey of cover *C. monspeliensis* and sage-leaved cistus *C. salvifolius*. A last view of Ronda cliffs in the haze as we sped home after a lovely day in the warmth and sunshine.

## Day 4

## Saturday 24<sup>th</sup> March

After we were shown the peak of our walk that day in the far distance at breakfast, we set off up winding roads. A roadside stop for the view, corn buntings and the remains of the corm and thick roots of *Biarum carratricense* that produces a purple spathe in autumn were noted. Cork forest surrounded us for miles as we drove up to our first 'pueblo blanco', Grazalema, at over 800m in altitude. At the cliff overhang clumps of silver leaved *Centaurea clementei* cascaded down with the smaller yellow delicate *Biscutellia frutescens*. Tufts of Campanula species were just beginning to flower and on the verge side was cut-leaved dame's-violet *Hesperis lacinatedus* in lovely purple. Crag martins were whizzing over our heads as we searched for more orchids, *Orchis mascula* subsp *olbiensis* was out below the road and a rock was almost covered in rustyback fern. We had a lovely clear view of a couple of blue rock thrush.

At Grazalema we found a single *Abies pinsapo* planted on the roadside corner. After a coffee and wander for maps and postcards we went up to the tremendous view visible from the mirador. Possibly alpine choughs were seen and certainly a nice redstart was wandering in the empty swimming pool. Up the road more early purple orchids and meadow saxifrage were scattered on the cliff side.

After a lunch stop we began our climb upwards finding delicate daffodil *Narcissus cuatrecasasii* in rock cracks. Griffin vultures flew over our heads and a nest was visible on the rocky cliff face. Large Mediterranean spurge *Euphorbia characias* and the remains of giant orchids *Barlia robertiana* were passed on the path. A mass of sand crocus *Romulea bulbolifera* and yellow star of Bethlehem *Gagao* spp., scattered themselves over the long slopes upwards and gave us inspiration in our climb. Further along two prickly plants were noted; hedgehog broom *Erinacea anthyllis* and prickly hare's-ear *Bupleurum spinosum*. These plants are dominant in the High Atlas flora and found locally here. A single specimen of *Daphne laureola* was seen. A thekla lark was seen at the top of the climb disturbed by some very woolly sheep and a flock of alpine choughs entertained us with their echoing voices around the cliffs.

## Day 5

## Sunday 25<sup>th</sup> March

Another glorious morning and we set off towards Antequera. A roadside wander at the gorge at 'Tajo del Molino' produced *Asphodelus aestivus*, lovely white sprays of endemic *Antirrhinum graniticum* and large waving giant fennel flowers. Cettis warbler let off some steam while we explored the roadsides and admired the poppy's *Papaver hybridum* and *P. rhoeas*. Tiny *Biscutellia didyma* and *Cynoglossum cherifolium* were also found.

We wound our way to the top of El Torcal and scrambled to find at least five good specimens of giant orchid *Barlia robertiana* with their delicate floral scent. Cracks in rocks provided shelter for black spleenwort and rustyback with the leaves the last remains of *Crocus nevadensis*, *Lonicera nigra* and *Ruscus aculeatus* filled in the gaps with clumps of *Saxifraga granulata* and Spanish bluebells. The limestone rocks were very impressive and lit up in the sunshine. A small purple flower proved to be *Arabis verna* spring rockcress and a few sawfly and early purple orchids were scattered in the cliffs. Further down the hill we found a lovely table and quiet spot for lunch out the wind and while eating were entertained by feeding the large ants – no Ibex yet!

Heading down again to the marvelous view over Antequera and the Indian's head but this was almost overpassed by a flock of pigeons that harbored a brightly colored and large specimen with a pink tail, green wings and yellow breast!

Driving beside Fuente de Piedre's lake the greater flamingos were spotted (apparently 8000 or so but we didn't count!) and were admired as some flew around. Beside the roadside a pond of sorts provided excellent views of a pair of black winged stilts, yellow wagtail, corn bunting and common tern flying overhead. A streamlined Montagu's harrier also flew past and a wee woodchat Shrike was identified by Alan who reminded us that his first sighting of this bird got him into 'birding'! A lovely ending to a glorious day.

## Day 6

## Monday 26<sup>th</sup> March

With the shock of not only the clocks changing and weather turning to a steady drizzle, undeterred we headed south to Sierra de las Nieves to find more daffodils! A first climb up the road revealed many early purple orchids in white and purple versions, *Narcissus assoanus*, *Ornithogallum umbellatum*, *Anthyllis tetraphyllis* and *Helianthemum origanifolium*. A flock of jays flew off as we rounded a few z bends. Heading up heather swathes of lovely Spanish heath *Erica hispanica* and just emerging tree heather *Erica aborea* were both happily growing on the limestone environs. We found many emerging *Paeonia coriacea* with red buds up a narrow gully with gum cistus *Cistus ladanifer*. We found some lovely clumps of the trumpet daffodil *Narcissus bujei* - an endemic to Southern Iberica, underneath trees in a boggy area.

At the peaceful car park at a height of 1250m just below the Spanish Fir *Abies pinsapo* relic forest we left the birders at base and headed up the hill. Sue and Meg headed along the track and found a large *Abies pinsapo* to hug, while the rest of us climbed a path to the lower slopes of the forest where there were more early purple orchids, a few young Spanish fir trees and views of the relic forest above us. At the car park a bank provided further daffodils and also rosettes of *Squilla peruviana* were just popping up. Nuthatch was seen in the car park by Allen and a crested lark had been seen on the track. Scouring the hills and tracks for wild boar we eventually had a shout from Ross that pigs were on the left! A whole family of wild boar, big and black, with at least 10 piglets were grazing and rooting by the roadside. They stormed off in a bit of a huff!

The clouds had crept right up the hills so we decided to head back to the Finca for a very festive lunch! We headed into Ronda where we had at least the fifth blue rock thrush sighting on the holiday seen at the new bridge over the gorge.

## Day 7

## Tuesday 27<sup>th</sup> March

Today was our last full day in Spain. We set off after breakfast for Ronda old town and walked up the hill beside the gorge and the fantastic 'new' bridge built over the Rio Guadalevin built in around 1793. *Allium neapolitanum* bordered the footpath in great clumps. After a wander around the city streets and bull ring we headed off back to the Finca for an early and dry lunch! Then as the clouds lifted we headed to Zahara where we hunted for orchids on the banks of the huge reservoir. Large areas of the hills were difficult to traverse because of the number of orchids on the ground including *Ophrys fusca*, *O. lutea*, *O. bombyliflora*, *O. speculum* and *Barlis robertiana*. The orchids bordered the roadside as we climbed up hill, at the top stopping at Garganta verde for spectacular views of Griffin vultures at one of the largest nesting sites in Southern Spain. *Narcissus assoanus* was spotted on

the roadside with Barbary nut and a small *Adonis annua* Pheasant's eye. A wild goat was spotted on the opposite hill while scouting the hills for Ibex. A black vulture was noted by Allen. Two more spots up the winding road, and more searching for Ibex revealed lovely views of griffin vultures sitting on rocks and a red deer on a distant slope. Driving slowly downhill at last a shout from Kit to announce the Ibex had found us! They clambered along the hill and two jumped in front of the minibus, posing quite well for the camera - a marvellous finale to watch these animals at the end of a wonderful week.

## Day 8

Wednesday 28<sup>th</sup> March

The returning group made their way straight to the airport and the flight was more or less on time. A little egret was spotted on the journey with the last sights of Spanish donkeys and thankfully the last of the Spanish drivers! We returned to the UK at the end of what had been a very successful, relaxing and enjoyable holiday.

## Species lists

## Birds

Common Name	Scientific Name	March 2007							
		21	22	23	24	25	26	27	28
Alpine chough	<i>Pyrrhocorax graculus</i>			X	X				
Alpine Swift	<i>Apus melba</i>			X					
Black Kite	<i>Milvus migrans</i>							X	
Black Redstart	<i>Phoenicurus ochruros</i>			X	X	X			
Black Vulture	<i>Aegypius monachus</i>							X	
Blackbird	<i>Turdus merula</i>				X	X		X	
Blackcap	<i>Sylvia atricapilla</i>			X	X	X		X	
Black wheatear	<i>Oenanthe leucura</i>		X						
Black-winged Stilt	<i>Himantopus himantopus</i>					X			
Blue Rock Thrush	<i>Monticola solitarius</i>			X	X	X		X	
Blue Tit	<i>Parus caeruleus</i>		X	X	X	X			
Booted Eagle	<i>Hieraaetus pennatus</i>	X							
Carrion Crow	<i>Corvus corone</i>					X			
Caspian Tern	<i>Sterna caspia</i>					X ?			
Cettis warbler	<i>Cettia cetti</i>		X			X			
Chaffinch	<i>Fringilla coelebs</i>		X	X	X	X		X	
Chiff Chaff (Iberian)	<i>Phylloscopus ibericus</i>		X						
Chough	<i>Pyrrhocorax pyrrhocorax</i>		X	X	X	X		X	
Coal Tit	<i>Parus ater</i>		X		X				
Common Crossbill	<i>Loxia curvirostra</i>		X						
Common Kestrel	<i>Falco tinnunculus</i>		X		X		X	X	
Coot	<i>Fulica atra</i>			X					
Cormorant	<i>Phalacrocorax carbo</i>		X						
Corn Bunting	<i>Miliaria calandra</i>		X	X		X			
Cory's Shearwater	<i>Calonectris diomedea</i>								
Crag Martin	<i>Ptyonoprogne rupestris</i>			X	X			X	
Dartford Warbler	<i>Sylvia undata</i>	X							
Goldfinch	<i>Carduelis carduelis</i>			X	X				
Goshawk	<i>Accipiter gentiles</i>					X			
Greater Flamingo	<i>Phoenicopterus ruber</i>					X			
Great-spotted Woodpecker	<i>Dendrocopus major</i>		X	X					
Green Woodpecker	<i>Picus viridis</i>			X	X				
Greenfinch	<i>Carduelis chloris</i>			X	X				
Grey Heron	<i>Ardea cinerea</i>		X						
Grey Wagtail	<i>Motacilla cinerea</i>		X	X		X			
Griffon Vulture	<i>Gyps fulvus</i>		X	X	X			X	

Common Name	Scientific Name	March 2007							
		21	22	23	24	25	26	27	28
Hen Harrier	<i>Circus cyaneus</i>			X					
Hoopoe	<i>Upupa epops</i>		X			X			
House Martin	<i>Delichon urbica</i>								
House Sparrow	<i>Passer domesticus</i>			X	X	X		X	
Jay	<i>Garrulus glandarius</i>						X		
Kingfisher	<i>Alcedo atthis</i>			X					
Lesser Black-backed Gull	<i>Larus fuscus</i>		X						
Linnet	<i>Acanthis cannabina</i>	X							
Little Egret	<i>Egretta garzetta</i>								X
Little Grebe	<i>Tachybaptus ruficollis</i>			X					
Mallard	<i>Anas platyrhynchos</i>		X	X		X			
Montagu's Harrier	<i>Circus pygargus</i>					X			
Northern Wheatear	<i>Oenanthe Oenanthe</i>				X				
Nuthatch	<i>Sitta europaea</i>						X		
Oystercatcher	<i>Haematopus ostralegus</i>					X			
Peregrine Falcon	<i>Falco peregrinus ssp.</i>			X ?					
Raven	<i>Corvus corax</i>							X	
Red-legged Partridge	<i>Alectoris rufa</i>						X		
Redstart	<i>Phoenicurus phoenicurus</i>			X	X	X			
Robin	<i>Erithacus rubecula</i>			X		X	X	X	
Rock Bunting	<i>Emberiza cia</i>			X		X		X	
Rock Dove	<i>Columba livia</i>			X		X			
Sand Martin	<i>Riparia riparia</i>		X						
Sardinian Warbler	<i>Sylvia melanocephala</i>			X	X			X	
Serin	<i>Serinus serinus</i>		X		X	X		X	
Song thrush	<i>Turdus philomelos</i>			X					
Spanish Sparrow	<i>Passer hispaniolensis</i>			X				X	
Spotless Starling	<i>Sturnus unicolor</i>			X					
Stonechat	<i>Saxicola torquata</i>	X	X	X				X	
Swallow	<i>Hirundo rustica</i>		X	X					
Theckla lark	<i>Galerida theklae</i>				X	X	X	X	
White Wagtail	<i>Motacilla alba</i>			X					
Whitethroat	<i>Sylvia communis</i>				X	X			
Wood Pigeon	<i>Columba palumbus</i>		X	X	X	Pink/ green one!			
Woodchat Shrike	<i>Lanius senator</i>					X			
Wren	<i>Troglodytes troglodytes</i>		X	X					
Yellow (Blue-headed)Wagtail	<i>Motacilla flava (iberica)</i>					X			
Yellow-legged Gull	<i>Larus cachinnans</i>					X			



## Plants

Group/Species	English Name(If any)	Location
<i>Pteridophytes</i>	<i>Ferns and Allies</i>	
<i>Equisetaceae</i>	Horsetail Family	
<i>Equisetum telmateia</i>	Great Horsetail	River nr El Burgo, Morning Day 2
<i>Adiantaceae</i>	Maidenhair Ferns	
<i>Anogramma leptophylla</i>	Jersey or Annual Fern	Embalse do Guitanejo, Day 2.
<i>Aspleniaceae</i>	Spleenwort Family	
<i>Asplenium adiantum-nigrum</i>	Black Spleenwort	Road to El burgo
<i>Asplenium trichomanes</i>	Maidenhair Spleenwort	Road to El burgo
<i>Ceterach officinarum</i>	Rusty-back	Road to El burgo
<i>Polypodiaceae</i>	Polypody Family	
<i>Polypodium cambricum</i>	Southern Polypody	Cueva day , Day 3
<i>Pinopsida (Gymnosperms)</i>	<i>Conifers &amp; Allies</i>	
<i>Abies pinsapo</i>	Spanish fur	Sierra de las Nieves
<i>Cupressaceae</i>	Juniper Family	
<i>Cupressus macrocarpa</i>	Monterey Cypress	Planted
<i>Cupressus sempervirens</i>	Italian Cypress	Planted
<i>Juniperus oxycedrus ssp.</i>	Prickly Juniper	Embalse de Guitanejo
<i>Pinaceae</i>	Pine Family	
<i>Abies pinsapo</i>	Spanish Fir	Sierra de las Nieves
<i>Cedrus deodar</i>	Deodar Cedar	Grazalema planted, Day 4
<i>Pinus halepensis</i>	Aleppo Pine	Plantation, Alhurian picnic , Day 1
<i>Pinus pinea</i>	Stone or Umbrella Pine	Roadside
<i>Pinus pinaster</i>	Maritime Pine	Sierra de las Nieves
<i>Angiosperms</i>	<i>Flowering Plants</i>	
<i>Acanthaceae</i>	Bear's-breech Family	
<i>Acanthus mollis</i>	Bear's Breech	Cueva del gato
<i>Aceraceae</i>	Maple Family	
<i>Acer monspessulanum</i>	Montpelier Maple	El Torcal
<i>Aizoaceae (Tetragoniaceae)</i>	Dewplant Family	
<i>Mesembryanthemum crystallinum</i>	Ice Plant	Embalse de Guitanejo
<i>Anacardiaceae</i>	Sumach Family	

Group/Species	English Name(if any)	Location
<i>Pistacia terebrinthus</i>	Turpentine Tree	Alhaurin, common, Day 1
<i>Apiaceae (Umbelliferae)</i>	Carrot Family	
<i>Bupleurum spinosum</i>	Spiny Hare's-ear	Grazalema,
<i>Ferula communis</i>	Giant Fennel	Roadside
<i>Scandix pecten-veneris</i>	Shepherd's Needle	Common
<i>Smyrniolum olusatrum</i>	Alexanders	Common
<i>Thapsia garganica</i>	Thapsia	Alhaurin
<i>Apocynaceae</i>	Periwinkle Family	
<i>Nerium oleander</i>	Oleander	Embalse de Guitanejo
<i>Vinca difformis</i>	Periwinkle	Embalse de Guitanejo
<i>Araliaceae</i>	Ivy Family	
<i>Hedera helix</i>	Ivy	Embalse de Guitanejo
<i>Aristolochiaceae</i>	Birthwort Family	
<i>Aristolochia bætica</i>	A Birthwort	Alhaurin , most days
<i>Asteraceae (Compositae)</i>	Daisy Family	
<i>Bellis perennis</i>	Daisy	Cueva day
<i>Bellis sylvatica</i>	Southern Daisy	Common
<i>Calendula arvensis</i>	Wild Marigold	Occasional
<i>Carduncellus caeruleus</i>	Carduncellus	Sp.
<i>Carlina corymbosa</i>	Flat-topped Carline Thistle	Grazalema
<i>Centaurea clementei</i>	Clemente's Knapweed	Grazalema
<i>Centaurea pullata</i>	-	Cueva del gato
<i>Chrysanthemum coronarium</i>	Crown Daisy	Fields
<i>Erigeron karvinskianus</i>	Mexican daisy	Roadside way back to Malaga
<i>Galactites tomentosa</i>	Galactites	Occasional
<i>Helichrysum stoechas</i>	Curry plant	Alhaurin
<i>Notobasis syriaca</i>	Syrian Thistle	Grazalema below cliff
<i>Phagnolon saxatile</i>	-	Ronda gorge
<i>Ptilostemon hispanica</i>	Spanish Thistle	Roadside, Sierra de las nieves
<i>Silybum marianum</i>	Milk Thistle	Freq. Grazalema
<i>Sonchus asper</i>	Prickly Sow-thistle	Freq
<i>Bignoniaceae</i>	Bignonia Family	
<i>Catalpa bignonioides</i>	Indian Bean Tree	Finca
<i>Boraginaceae</i>	Forget-me-not Family	
<i>Anchusa azurea</i>	Large Blue Alkanet	Sp.
<i>Borago officinalis</i>	Borage	
<i>Cynoglossum creticum</i>	Blue Hound's-tongue	Common
<i>Echium boissieri</i>	Boissier's Viper's Buglos	Grazalema
<i>Echium plantagineum</i>	Purple Viper's Buglos	Ronda
<i>Echium vulgare</i>	Viper's Bugloss	Roadside
<i>Brassicaceae (Cruciferae)</i>	Cabbage Family	

Group/Species	English Name(if any)	Location
<i>Arabis verna</i>	Spring Rockcress	El Torcal, Day 5
<i>Biscutella didyma</i>	Biscutella	Tajo del Molino, Day 5.
<i>Biscutella frutescens</i>	-	Grazalema
<i>Capsella bursa-pastoris</i>	Shepherd's Purse	Common
<i>Eruca sativa</i>	Eruca	Tajo del Molino
<i>Erophila verna praecox</i>	Spring Whitlow Grass	Common, Grazalema slopes.
<i>Hesperis laciniata</i>	Cut-leaved dame's violet	Cliff below Grazalema
<i>Iberis sempervirens</i>	Candytuft	Sierra de las nieves
<i>Lobularia maritima</i>	Sweet Alison	Look out day 2
<i>Moricandia moricandioides</i>	Violet Cabbage (Moricandia)	Roadside
<i>Sinapis alba</i>	White mustard	Roadside
<b>Cactaceae</b>	<b>Cactus Family</b>	
<i>Opuntia ficus-indica</i>	Barbary Fig or Prickly Pear	Roadsides
<b>Campanulaceae</b>	<b>Bellflower Family</b>	
<i>Campanula cf. mollis</i>	-	Grazalema on cliff below.
<b>Caprifoliaceae</b>	<b>Honeysuckle Family</b>	
<i>Viburnum tinus</i>	Laurustinus	Roadside
<i>Lonicera nigra</i>	-	Sierra de las nieves
<b>Caryophyllaceae</b>	<b>Pink Family</b>	
<i>Cerastium brachypetalum</i>	Grey Mouse-ear	Embalse de Guitanejo
<i>Paronychia capitata</i>	Paronychia	Cueva de la Pilata
<i>Silene colorata</i>	-	Embalse de Guitanejo
<b>Cistaceae</b>	<b>Rock-rose Family</b>	
<i>Cistus albidus</i>	Grey-leaved Cistus	Alhaurin
<i>Cistus ladanifer</i>	Gum Cistus	Grazalema
<i>Cistus monspeliensis</i>	Narrow-leaved Cistus	Alhaurin
<i>Cistus salvifolius</i>	Sage-leaved Cistus	Cork wood day 3.
<i>Helianthemum origanifolium</i>	Majoram-leaved Rock-rose	Alhaurin, Grazalema
<b>Convolvulaceae</b>	<b>Bindweed Family</b>	
<i>Convolvulus althaeoides</i>	Mallow-leaved Bindweed	Alhaurin
<b>Crassulaceae</b>	<b>Stonecrop Family</b>	
<i>Sedum brevifolium</i>	Short-leaved Stonecrop	El Burgo. Rocks
<i>Sedum forsteranum</i>	-	Grazalema
<i>Umbilicus rupestris</i>	Navelwort	Roadside
<b>Cucurbitaceae</b>	<b>White Bryony or Cucumber Family</b>	
<i>Bryonia dioica</i>	White Bryony	Embalse de Guitanejo
<i>Ecballium elaterium</i>	Squirting Cucumber	Roadside, Indian Head mirador
<b>Ericaceae</b>	<b>Heath family</b>	
<i>Arbutus unedo</i>	Strawberry Tree	Finca
<i>Erica arborea</i>	Tree Heath	Grazalema

Group/Species	English Name(if any)	Location
<i>Erica australis</i>	Spanish Heath	Grazalema
<i>Euphorbiaceae</i>	Spurge Family	
<i>Euphorbia characias ssp. characias</i>	Large Mediterranean Spurge	Grazalema
<i>Euphorbia helioscopia</i>	Sun Spurge	Common
<i>Mercurialis annua</i>	Annual Mercury	Embalse de Guitanejo
<i>Fabaceae (Leguminosae)</i>	Pea Family	
<i>Adenocarpus sp.</i>	Large tree!	Grazalema
<i>Anagyris foetida</i>	Bean Trefoil	Grazalema
<i>Anthyllis tetraphylla</i>	Bladder Vetch	El Torcal
<i>Anthyllis vulneraria ssp. maura</i>	Mediterranean Kidney Vetch	Embalse de Guitanejo
<i>Ceratonia siliqua</i>	Carob	Frequent
<i>Cercis siliquastrum</i>	Judas Tree	El Burgo, Grazalema.
<i>Coronilla juncea</i>	Rush-like Scorpion Vetch	Possible
<i>Coronilla valentina</i>	Shrubby Scorpion Vetch	Alhaurin
<i>Erinacea anthyllis</i>	Hedgehog Broom	Grazalema
<i>Hymenocarpus circinnatus</i>	Disk trefoil	Tajo del Molino
<i>Lathyrus aphaca</i>	Yellow vetchling	Grazalema
<i>Lathyrus latifolius</i>	Broad-leaved Everlasting Pea	Cueva del gato
<i>Lathyrus sphaericus</i>	-	Roadside
<i>Lygos (retema) monosperma</i>	White broom	Zahara roadside, Day 7.
<i>Psoralea bituminosa</i>	Pitch trefoil	Look out Day 2
<i>Spartium junceum</i>	Spanish Broom	Roadside, Day 7
<i>Ulex parviflorus</i>	Small-flowered Gorse	Sierra de las Nieves, Day 6.
<i>Ulex europæus</i>	Gorse	Widespread
<i>Vicia faba</i>	Broad Bean	Fields sown.
<i>Fagaceae</i>	Oak & Beech Family	
<i>Quercus coccifera</i>	Kermes Oak	Grazalema
<i>Quercus suber</i>	Cork Oak	Day 3
<i>Quercus ilex</i>	Home oak	Look out day 2
<i>Fumariaceae</i>	Fumitory Family	
<i>Fumaria spp.</i>	-	Frequent
<i>Geraniaceae</i>	Geranium Family	
<i>Erodium chium</i>	-	Cueva del gato Day 2
<i>Erodium cicutarium</i>	Common Stork's-bill	Widespread
<i>Geranium robertianum</i>	Herb-robert	Widespread
<i>Geranium lucidum</i>	Shiny Crane's-bill	Grazalema, roadside.
<i>Lamiaceae (Labiatae)</i>	Dead-nettle Family	
<i>Lamium amplexicaule</i>	Henbit Deadnettle	El Torcal
<i>Lavandula lanata</i>	Wolly lavender	Grazalema
<i>Lavandula multiforum</i>	-	Alhaurin
<i>Lavandula stoechas ssp. pedunculata</i>	French Lavender	Alhaurin
<i>Phlomis lychnitis</i>	-	Alhaurin

Group/Species	English Name(if any)	Location
<i>Phlomis purpurea</i>	-	Everywhere!
<i>Rosmarinus officinalis</i>	Rosemary	Embalse de Guitanejo
<i>Salvia verbenaca</i>	Wild Clary	Embalse de Guitanejo
<i>Salvia argentea</i>	Silver sage	Roadside El burgo
<i>Satureja inodora</i>	Savory	Sp.
<i>Stachys circinata</i>	-	Look out, Day 2
<i>Teucrium fruticans</i>	Tree Germander	Grazalema
<i>Thymus mastichinus</i> ssp. ?	Round-headed Thyme	Grazelama
<i>Thymus capitatus</i>	Capitate Thyme	Alhaurin
<i>Malvaceae</i>	Mallow Family	
<i>Malva sylvestris</i>	Common Mallow	Common
<i>Lavatera maritima</i>	Sea Mallow	Cueva top of dam.
<i>Moraceae</i>	Fig Family	
<i>Ficus carica</i>	Fig	Widespread
<i>Myrtaceae</i>	Myrtle & Gum Family	
<i>Eucalyptus</i> spp.	Gum	Many planted and bordering rivers
<i>Nyctaginaceae</i>	Bougainvillea Family	
<i>Bougainvillea glabra</i>	Bougainvillea	Ronda
<i>Oleaceae</i>	Olive Family	
<i>Fraxinus angustifolia</i>	Narrow-leaved Ash	River valley day 2
<i>Olea europaea</i>	Olive	Road to Ronda
<i>Phillyrea latifolia</i>	Mock privet	Embalse de Guitanejo, riverside
<i>Jasminum</i> sp.	Jasmine	Look out Day 2
<i>Orobanchaceae</i>	Broomrape Family	
<i>Orobanche</i> spp.	Broomrape	Embalse de Guitanejo
<i>Oxalidaceae</i>	Wood-sorrel Family	
<i>Oxalis pes-caprae</i>	Bermuda Buttercup	Alhaurin
<i>Papaveraceae</i>	Poppy Family	
<i>Papaver rhœas</i>	Common Poppy	Roadside
<i>Papaver hybridum</i>	Prickly Poppy	Roadside
<i>Paeoniaceae</i>		
<i>Paeonia broteroi</i>		El Burgo, Day 2
<i>Paeonia coriacea</i>		Sierra de las nieves
<i>Plantaginaceae</i>	Plantain Family	
<i>Plantago lanceolata</i>	Ribwort Plantain	Freq.
<i>Polygalaceae</i>	Milkwort Family	

Group/Species	English Name(if any)	Location
<i>Polygala rupestris</i>	Rock Milkwort	Garganta verde, Day 7
<i>Rumex scutatus</i>	French or Shield Dock	Lookout day 2
<i>Primulaceae</i>	Primrose Family	
<i>Anagallis arvensis</i>	Scarlet Pimpernel	Common
<i>Punicaceae</i>	Pomegranate Family	
<i>Punica granatum</i>	Pomegranate	Finca
<i>Ranunculaceae</i>	Buttercup Family	
<i>Adonis annua</i>	Pheasant's-eye	Garganta verde
<i>Anemone palmata</i>	Yellow Anemone	Alhaurin
<i>Clematis cirrhosa</i>	Virgin's Bower	El Burgo, widespread
<i>Helleborus foetidus</i>	Stinking Hellebore	Grazalema
<i>Ranunculus bullatus</i>	-	Possible
<i>Ranunculus bulbosus</i>	Bulbous Buttercup	Possible
<i>Ranunculus ficaria subsp ficariformis</i>	Lesser Celandine	Cueva day
<i>Ranunculus macrophyllus</i>	Large-leaved Buttercup	Day 3, Cuevas
<i>Ranunculus rupestris</i>	-	Widespread
<i>Resedaceae</i>	Mignonette Family	
<i>Reseda alba</i>	White Mignonette	Embalse de Guitanejo
<i>Reseda lutea</i>	Mignonette	Embalse de Guitanejo
<i>Reseda luteola</i>	Weld	Common
<i>Rhamnaceae</i>	Buckthorn Family	
<i>Rhamnus alaternus</i>	Mediterranean Buckthorn	Lookout day 2
<i>Rhamnus lycioides</i>	Prostrate Buckthorn	Roadside day 3
<i>Rosaceae</i>	Rose Family	
<i>Crataegus monogyna</i>	Hawthorn	Freq.
<i>Prunus dulcis</i>	Almond	Freq.
<i>Prunus spinosa</i>	Blackthorn	Freq.
<i>Rosa spp.</i>	-	Freq.
<i>Rubus fruticosus agg.</i>	Bramble	Freq.
<i>Rubiaceae</i>	Bedstraw Family	
<i>Cuscuta epithimum</i>	Dodder	Freq
<i>Galium spp.</i>	-	Roadside
<i>Putoria calabrica</i>	Putoria	Cliff below Grazalema
<i>Rubia peregrina</i>	Wild Madder	Lookout day 2
<i>Sherardia arvensis</i>	Field Madder	Alhaurin
<i>Rutaceae</i>	Rue Family	
<i>Citrus limon</i>	Lemon	Plantation
<i>Citrus sinensis</i>	Orange	Plantation
<i>Citrus aurantium</i>	Bitter Orange	Plantation
<i>Ruta chalepensis</i>	Fringed Rue	Rock, Cueava day.

Group/Species	English Name(if any)	Location
<i>Saxifragaceae</i>	Saxifrage Family	
<i>Saxifraga granulata</i>	Meadow Saxifrage	Grazalema
<i>Saxifraga globulifera</i>	-	Possible cliff above Cueva, top of dam.
<i>Salicaceae</i>	Willow & Poplar Family	
<i>Populus alba</i>	White Poplar	Freq.
<i>Salix atrocinera</i>	Grey Willow	Freq.
<i>Santalaceae</i>	Sandalwood Family	
<i>Osyris alba</i>	Osyris	Cueva del gato
<i>Scrophulariaceae</i>	Figwort Family	
<i>Antirrhinum majus</i>	Snapdragon	Cueva del gato, Day 3
<i>Antirrhinum graniticum</i>		Tajo del Molino
<i>Chaenorhinum villosum</i>	-	Embalse de Guitanejo
<i>Cymbalaria muralis</i>	Ivy-leaved Toadflax	Embalse de Guitanejo
<i>Linaria aeriginea</i>		Day 2 and day 3
<i>Verbascum giganteum</i>	Giant Mullein	Possible
<i>Veronica beccabunga</i>	Brooklime	Grazalema, end of walk in stream.
<i>Thymelaeaceae</i>	Daphne Family	
<i>Daphne gnidium</i>	Mediterranean Mezereon	Day 2
<i>Daphne laureola</i>	Spurge Laurel	Grazalema
<i>Ulmaceae</i>	Elm Family	
<i>Ulmus minor agg</i>	Small-leaved Elm	Cueva del Gato, planted.
<i>Urticaceae</i>	Nettle Family	
<i>Parietaria judaica</i>	Pellitory-on-the-wall	Cueva top of dam
<i>Urtica urens</i>	Small Nettle	Widespread
<i>Valerianaceae</i>	Valerian Family	
<i>Centranthus calcitrapa</i>	Annual Valerian	Sp. On roadside
<i>Fedia cornucopiae</i>	Fedia	Road side
<i>Violaceae</i>	Violet Family	
<i>Viola demetria</i>	-	Day 2 El Burgo
<i>Viscaceae</i>	Mistletoe Family	
<i>Viscum cruciatum</i>	Mistletoe	El Burgo valley
	LILIIDAE (MONOCOTYLEDONS)	
<i>Agavaceae</i>	Centuryplant Family	
<i>Agave americana</i>	Century Plant	Road side
<i>Yucca gloriosa</i>	Yucca	Planted
<i>Araceae</i>	Arum Family	

Group/Species	English Name(if any)	Location
<i>Arisarum simorrhinum</i>	Friar's Cowl	Alhaurin
<i>Arum italicum</i>	Italian Arum	Widespread
<i>Biarum carratracense</i>	Carratracan Biarum	Roadside to Grazalema
<i>Arecaceae (Palmae)</i>	Palm Family	
<i>Chamærops humilis</i>	Dwarf Fan Palm	Alhaurin
<i>Phoenix dactylifera</i>	Date Palm	Roadside
<i>Phoenix canariensis</i>	Canary Palm	Roadside
<i>Cyperaceae</i>	Sedge Family	
<i>Carex spp.</i>	Sedge!	Woodland
<i>Dioscoreaceae</i>	Black Bryony Family	
<i>Tamus communis</i>	Black Bryony	Alhaurin
<i>Iridaceae</i>	Iris Family	
<i>Crocus nevadensis</i>	Nevada Crocus	El Torcal (remains of leaves in rock)
<i>Gynandiris sisyrinchium</i>	Barbary Nut	Alhaurin
<i>Iris foetidissima</i>	Stinking Iris	Grazalema
<i>Iris germanica</i>	German or Bearded Iris	Cueav de la Pilata, near carpark.
<i>Iris planifolia</i>	Broad-leaved Iris	Embalse de Guitanejo
<i>Romulea bulbocodium</i>	Romulea	Lunch Day 3, Grazalema.
<i>Liliaceae</i>	Lily Family	
<i>Allium ampeloprasum</i>	Wild Leek	Embalse de Guitanejo
<i>Allium neapolitanum</i>	Naples Garlic	Embalse de Guitanejo
<i>Allium roseum</i>	Rosey garlic	Embalse de Guitanejo
<i>Aphyllanthes monspeliensis</i>	Aphyllanthes	Garganta verde, Day 7
<i>Asparagus acutifolius</i>	Sharp-leaved Asparagus	Alhaurin
<i>Asparagus albus</i>	White-Stemmed Asparagus	Alhaurin
<i>Asphodelus albus</i>	White Asphodel	Embalse de Guitanejo
<i>Asphodelus aestivus</i>	-	Tajo del Molino
<i>Dipcadi serotinum</i>	Brown Bluebell	Embalse de Guitanejo
<i>Fritillaria lusitanica</i>	Portuguese Fritillary	Embalse de Guitanejo
<i>Gagea spp.</i>	Yellow Star of Bethlehem	Grazalema. Widespread.
<i>Hyacinthoides hispanica</i>	Spanish Bluebell	El Torcal
<i>Muscari comosum</i>	Tassel Hyacinth	Embalse de Guatianejo
<i>Muscari neglectum</i>	Grape Hyacinth	Embalse de Guatianejo
<i>Narcissus cuatrecasasii (= rupicola)</i>	Rock Jonquil	Grazalema
<i>Narcissus assoanus (= requienii)</i>	Rush-leaved Jonquil	El Burgo roadside
<i>Narcissus cantabricus</i>	White Hoop-petticoat Daffodil	Day 2
<i>Narcissus bugei (= longispathus bugei)</i>	A Daffodil	Sierra de las nieves
<i>Narcissus bulbocodium</i>	Yellow Hoop-petticoat Daffodil	El Brgo roadside
<i>Ornithogallum reverchonii</i>	Star of Bethlehem	Cuevas day 3.
<i>Ornithogallum umbellatum</i>	Common Star of bethlehem	El Burgo
<i>Ruscus aculeatus</i>	Butcher's Broom	Day 2
<i>Scilla peruviana</i>	Peruvian Squill	Grazalema, Sierra de las nieves
<i>Smilax aspera</i>	Common Smilax	Day 2 by river



Group/Species	English Name(if any)	Location
<i>Urginea maritima</i>	Sea Squill	Embalse de Guitanejo, widespread
<i>Orchidaceae</i>	Orchid Family	
<i>Aceras anthropophorum</i>	Man Orchid	Embalse de Guitanejo
<i>Barlia robertiana</i>	Giant Orchid	Zahara
<i>Ophrys apifera</i> ssp. <i>Apifera</i>	Bee Orchid	Embalse de Guitanejo
<i>Ophrys bombyliflora</i>	Bumble Bee Orchid	Embalse de Guitanejo
<i>Ophrys ciliatum</i>	Mirror Orchid	Alhaurin
<i>Ophrys fusca</i>	Sombre Bee Orchid	Embalse de Guitanejo
<i>Ophrys lutea</i>	Yellow Bee Orchid	Alhaurin
<i>Ophrys iricolor</i> subsp. <i>durieui</i> (subsp. <i>atlantica</i> )	Atlantic Orchid	Alhaurin
<i>Ophrys tenthredinifera</i>	Sawfly Orchid	Embalse de Guitanejo
<i>Orchis laxiflora</i>	Jersey Orchid	Embalse de Guitanejo ?
<i>Orchis collina</i>	Fan-lipped orchid	Grazalema
<i>Orchis italica</i>	Naked Man Orchid	Embalse de Guitanejo
<i>Orchis papilionacea</i>	Pink Butterfly Orchid	Alhaurin
<i>Orchis morio</i> subsp. <i>champagneuii</i>	Green-winged Orchid	Day 2
<i>Orchis mascula</i> ssp. <i>olbiensis</i>	-	Day 3 lunch, widespread
<i>Poaceae (Gramineae)</i>	Grass Family	
<i>Arundo donax</i>	Giant Reed	Embalse de Guitanejo
<i>Avena sterilis</i>	Winter Wild Oat	Ronda
<i>Dactylis glomerata</i>	Cock's-foot	Common
<i>Phragmites australis</i>	Common Reed	Common
<i>Stipa tenacissima</i>	-	Grazalema
<i>Typhaceae</i>	Reedmace Family	
<i>Typha latifolia</i>	Bulrush	Cueva del gato

## Butterflies

Common name	Scientific name
Papilionidae	
Swallowtail	<i>Papilio machon</i>
Spanish Festoon	<i>Zerynthia rumina</i>
Pieridae	
Large White	<i>Pieris brassicae</i>
Orange Tip	<i>Anthocharis cardamines</i>
Moroccan Orange Tip	<i>Anthocharis belia</i>
Clouded Yellow	<i>Colias crocea</i>
Brimstone	<i>Gonepteryx rhamni</i>
Cleopatra	<i>Gonepteryx cleopatra</i>
Lycaenidae	
Common Blue	<i>Polyommatus icarus</i> ?
Provence haristreak	<i>Tomares ballus</i>
Nymphalidae	
Red Admiral	<i>Vanessa atalanta</i>
Large Wall Brown	<i>Lasiommata maera</i>

## Moths

Common name	Scientific name
Thaumetopoeidae	
Larvae of Pine processionary moth	<i>Thaumetopoea pityocampa</i>

## Mammals

Common name	Scientific name
Iberian ibex	<i>Capra pyrenaica</i>
Wild boar	<i>Sus scrofa</i>
Domestic goat!	<i>Capra hircus</i>
Wild goat	<i>Capra aegagrus</i>
Red deer	<i>Cervus elaphus</i>
Rabbit	<i>Oryctologus cuniculatus</i>

## Reptiles and amphibians

Common name	Scientific name
Western Three-toed Skink	<i>Chacides striatus</i>
Iberian Wall Lizard	<i>Podarcis hispanica</i>

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