

# Southern Portugal

## *Wildlife at Leisure*

### Greentours Trip Report

17th – 24th March 2018

**Led by** Hugo Sampaio and Paul Green

Daily report & systematic lists by Paul Green, with input by Hugo Sampaio

#### **Day 0 Saturday 17<sup>th</sup> March Arrival at Faro and transfer to Alte Hotel**

We all met up at Faro Airport arriving from various airports around the UK and transferred to the hotel and settled in before meeting up for our first evening meal.

#### **Day 1 Sunday 18<sup>th</sup> March Castelo de Paderne and Quarteira River**

Our first stop of the trip was a quick visit to the local village supermarket to pick up supplies of chocolate, biscuits, fruit, crisps and water. We headed off to Castelo de Paderne and parked on the

The whole group at Castelo de Paderne. Photo: P. Green



side of a track in the valley bottom and made our way slowly up the track looking at the flowers and birds as we went. Orchids were in good supply and we very soon saw our first Mirror Orchids (*Ophrys speculum*), which were in good numbers on several of the days. *Lithodora diffusa* (Scrambling Gromwell) was scrambling amongst the scrub. A Red-legged Partridge was seen as well as Blackcaps. A lone *Cephalanthera longifolia* (Narrow-leaved Helleborine) was seen below the

track hiding amongst the scrub. On reaching the top we walked amongst the low scrub which hid a large number of Bumblebee *Ophrys* (*Ophrys bombyliflora*) and a scattering of *Ophrys sicula* and *Ophrys fusca*. A Serin was heard calling and a Hoopoe was seen sitting on a dead tree. A Moorish Gecko blended in well with the back drop of the wall it was on, and a small snake did its best to conceal itself from us in a crack of the wall. We made our way up to the ruins of the castle, where under the trees there was a large number of *Orchis italica* (Italian Orchid). While the group rested by the castle Hugo and I walked back down and picked up the vans.

Our picnic lunch was had under the motorway bridge by the Quarteira River, where a Kingfisher could be heard, but not seen because of the tall bamboo like grass *Arundo donax*. We set off from our lunch stop for a walk along the river. It was not long before we saw our first Barbary Nuts (*Gynandris sisyrinchium*) flowering along with a lone *Ophrys tenthredinifera* (Wasp Orchid / Sawfly Orchid). *Narcissus papyraceus* (Paper-white Narcissus) were in good numbers, and a few *Tulipa sylvestris* subspecies *australis* (Wild Tulip), this subsp. of Tulip has red on the outer side of the tepals. We admired the old watermill the other side of the river, and Richard was the only one to see the Kingfisher. There were a few *Narcissus bulbocodium* (Hoop Petticoat Narcissus) below the path. There were plenty of signs of wild boar digging. The group took a rest on an old bridge and watched a Short-toed Eagle fly over. Many House Martins were flitting about the river and over the hillside scrub. We made our way up the hillside path in the warm sun, where at the top the group took a rest, while Hugo and I went and picked up the vans.



Moorish Gecko.  
Photo: P. Green

## Day 2 Monday 19<sup>th</sup> March Quinta do Lago

We drove to the coast for a morning of bird watching. It wasn't long before we saw four Spoonbills, with a Little Egret from the bridge across the lagoon. Despite it being a sunny morning, there was a chill to the wind. As it was low tide we could see the beds of *Zostera marina* (Eelgrass) covering the mudflats, a food source for wintering geese. There were large numbers of the golden yellow flower spikes of *Cistanche phelypaea*, a parasitic species on woody members of the Chenopodiaceae. What looked like stones on the mud turned out to be large numbers of Fiddler Crabs. A few Glossy Ibis were seen on the mudflats. We made our way along the path to a large lake where we saw Pintail, two species of Terrapins and Purple Gallinule. Several of the latter were seen happy wandering about on the golf course. In the open sand were many tiny dainty *Leucojum trichophyllum* (Three-leaved Snowflake). Our picnic lunch was had in the bird hide, the best place to get away from the chilly wind. Azure-winged Magpies were in the Stone Pines and a couple landed on a bough for a good clear view.



Spoonbills. Photo: P. Green



*Cistanche phelypaea*. Photo: P. Green

We headed into town and stopped for a welcome coffee break at a small local café. The rain started to come down. A White Stork flew over as we came out of the café. Because of the weather Hugo and I decided to head back to Alte Hotel. This gave the group the choice of staying at the hotel or

going for an afternoon walk from the hotel. Those who braved the weather had to put up with some heavy downpours, eventually the clouds moved away for a sunny afternoon. The annual weeds were in good supply on the disturbed ground, and in the cultivated areas. We had *Silene gallica* (Small-flowered Catchfly), *Calendula arvensis* (Field Marigold), *Scandix pecten-veneris* (Shepherd's-needle) and *Fumaria occidentalis* (Western Ramping-fumitory). There were some good veg gardens to look at, and one had an Avocado tree covered in fruit.

### Day 3 Tuesday 20<sup>th</sup> March Castro Verde Plains and Casével Station (disused)

A fine sunny start to the day with bright blue skies and very few clouds, like the day before the wind had a chilly bite to it. As we headed to Castro Verde, we passed many White Stork nests with sitting birds. We stopped in the town and had a refill of supplies of biscuits and chocolate. A flock of Bee-eaters flew across the road in front of my van. At a roadside stop Hugo found one Great Bustard in the far distance for us to see. We moved into open plain to look for more bird species, with the strong breeze and the chill factor it wasn't a pleasant walk. In the tilled ground was lots of tiny purple *Linaria algarviana* a toadflax endemic to the Algarve. Amongst the scrub on a rocky outcrop, we found plenty of the fudge colour flower spikes of *Dipcadi serotinum*, and the bright golden yellow flowered *Linaria viscosa* with sticky stems. Hugo found a large Centipede (*Scolopendra cingulata*) under a rock and put it in a jar for us all to see. It wasn't long before another upturned stone had a Scorpion under it. We could hear bells from the flock of sheep in the distance. A small group of Corn Bunting were seen in the grass by a large patch of *Cistus*. The most interesting sight of the morning, was the vast numbers of woolly bear caterpillars, which were so numerous it was hard not to walk on them.



We headed off in the vans hoping to find a more sheltered spot for lunch. A White Stork picked up a snake on the road which was over a metre long, and flew into the adjoining field, to try and swallow the snake, the Stork spent some time and didn't seem to be getting anywhere, and we drove off before the outcome. A Southern Grey Shrike was on a field fence and a Little Owl was seen flying from a stone wall into a Eucalyptus tree.

We parked by a river for our lunch, here it was much more sheltered and felt warm in the afternoon



*Romulea bulbocodium*. Photo: P. Green

sun. *Romulea bulbocodium* were scattered over a damp field with a few *Narcissus bulbocodium*, and amongst the scrub hid *Orchis morio* subsp. *picta*. Lots of Small Heaths were on the wing and one Spanish Festoon was seen. We moved on and at a roadside stop, a Hen Harrier was flying low over the fields and two Little Bustards flew off, without many of the group seeing them. The vans pulled off the road again and this time a flock of 24 Great Bustards could clearly be seen. Another vehicle pulled alongside ours to enjoy the view, as we watched the Great Bustards slowly walk up the slope and over the brow of the hill. A lone Little Bustard was also seen.



We moved onto Casével Station which is now long disused, the building being the perfect nesting site for a group of Little Kestrel. What some of us thought were rocks in a field turned out to be 16 Great Bustards. To round the day off a small flock of Red Kites flew over. A day that put a broad smile on the faces of the birdwatchers!



Great Bustards. Photo: P. Green

#### Day 4 Wednesday 21<sup>st</sup> March

#### Salgados Lagoon and Fóia (Monchique)

Another breezy start to the day, the sun did feel a little warmer and there wasn't a cloud in sight. We drove to the coast and to Salgados Lagoon. The telescopes and binoculars were soon put to good use as we watched Spoonbill, Ruff, Gadwall and Avocet. The botanists amongst the group soon got



Buttonweed. Photo: P. Green

distracted by more of the *Linaria algarviana* in the disturbed areas, and the wet areas had large stands of *Cotula coronopifolia* (Buttonweed). There were many bushes of *Retama monosperma* covered in white flowers. A flock of 17 Flamingos circled around over head for a while and there was good views of a Fan-tailed Warbler sitting on a bush. It took some time for all of us to see clear views of the Penduline Tits. Alpine Swift were seen over head before we headed to the beach to sit and have our lunch.

We took a coffee and ice cream break in a local café before heading inland to the Cork Oak forests. Here Short-toed Treecreeper could be heard

calling as well as a Green Woodpecker. There were many bushes of *Viburnum tinus* (Laurustinus) under the oaks along with *Erica arborea* (Tree Heath), and the ground flora was made up of pale blue *Scilla monophyllos*, pink *Polygala rupestris* and a clump of white *Arenaria montana*.

Leaving the Cork Oak forest we drove up through the *Eucalyptus* forest to the open mountain top, with wonderful panorama views all the way to the coast where we had been earlier that day. It was now rather chilly, some of the party visited the souvenir shops, and others took shelter in the café. There were many bushes of the pink *Erica umbellata*. It was great to have clear sights of Dartford Warbler, the highlight being Rock Buntings.

## Day 5 Thursday 22<sup>nd</sup> March Budens, Marsh of Budens, Sagres and Cape St Vincent



Green Hairstreak. Photo: P. Green

Another bright blue sky and completely clear of clouds, and much warmer than the previous mornings. We headed to the coast and parked in a layby by Almond trees. Like in many places the cultivated ground was a blaze of lemon yellow, as it was covered in *Oxalis pes-caprae* (Bermuda-buttercup). The banks of the track we walked along had a lots of Bumblebee Orchids and scattered clumps of *Astragalus lusitanicus*. Several bushes of *Jasminum fruticans* were in full flower. A single Green Hairstreak was sitting on a bush before it flew away. The deep blue sea looked beautiful from the top of the high sea-cliffs. There were many golden patches of *Asteriscus maritimus*. Sardinian Warbler and Black Redstart were seen and a toad was found. We stood on the cliff edge admiring the mat forming *Helianthemum origanifolium*. Jenny found a single flowering spike of *Serapias lingua* (Tongue Orchid). As we made our way back along the track to the vans, a few Azure-winged Magpie were seen drinking from a puddle.



*Helianthemum origanifolium*. Photo: P. Green



We drove a little further along and took a track along the side of a large reed swamp. *Smyrniololus atrum* (Alexanders) were in full flower. The frogs were making much noise. A few *Orchis champagneuxii* were along the side of the track, and they were also scattered over a grassy slope. A Brimstone and Clouded Yellow were the butterflies seen. Matty saw a Hare, and a Water



Rail was heard.

Our lunch was taken sitting on rocks at the top of the beach. *Nonea pulla* with brown flowers was on the side of the car park and two White Wagtails were bobbing about alongside a ditch. The highlight of the stop was a large stand of the strongly scented *Narcissus gaditanus*. Like us a Hummingbird Hawkmoth was enjoying the *Narcissus* flowers. We stopped for a coffee break, a Peregrine flew over the car park, and *Lathyrus ochrus* was in fine flower.

The afternoon was spent on Cape St Vincent. A walk amongst the low growing scrub produced many new flowers for our list including *Coronilla valentina* subsp. *glauca*, *Anagallis monelli* and *Gennaria diphylla*, the latter being an orchid with green-flowers, which had already finished flowering. Moving on we visited the ruins of Beliche Fort, where *Hyoscyamus albus* was flowering at the base of the fort walls. On the sea-cliffs were many large patches of an orange-red flowered *Aloe*. Many large fish could be seen in the sea. Our final stop was by the lighthouse at the very tip of the cape. The wind had picked up. Gannets were seen.

On our journey back we stopped to see lots of Choughs in a field, and there were many spikes of *Lupinus luteus*. Not a stop as we were about to join the motorway, one road bank had at least a 100 flowering *Scilla peruviana* (Portuguese Squill).

As it was Michael's birthday I asked the hotel to make a birthday cake for our desert, and we all sang happy birthday as the cake came in, and Michael blew out the candle.

#### **Day 6 Friday 23<sup>rd</sup> March      Rocha da Pena, Fonte Benémola, Benémola Spring and Barranco do Velho**

Our last full day, only a 20 minute drive to the first stop of the day. The local dogs had a good bark as



*Paeonia broteri*. Photo: P. Green

we pulled into a small car park, and took a path up the hillside. *Fedia cornucopiae* was on the disturbed ground, and *Aristolochia baetica* (Dutchman's Pipe) with brown flowers was scrambling over the scrub. Hugo found our first *Orchis olbiensis*, and with his keen eyesight he found a Blue Rock Thrush way up on the high cliff face, the telescope was soon focused on the bird for all to see. One flowering *Paeonia broteri* was found under a large tree, and it wasn't long before we found many more. As we walked the weather changed and down came the mountain mist and we soon completely lost our view over the surrounding countryside. There were many flowering *Rosmarinus officinalis* (Rosemary) bushes alongside the track. We stopped and looked at the leaves of *Ferula communis* (Giant Fennel) before we turned around.

We moved onto Fonte Benémola and walked along a wooded lane. There were many *Aceras anthropophorum* (Man Orchid) and Mirror Orchids flowering. Under a large tree was a large population of the native *Hyacinthoides hispanica* (Spanish

Bluebell) with pale blue flowers. In an area cleared of scrub and now bare soil were hundreds of *Orchis italica*, including several albino forms.

As it was heavy rain we sat in the vans for our picnic lunch, before moving onto a café for a coffee.

Driving through a mixture of sun and fog we made our way to a large oak forest. Nuthatch and Firecrest were seen and both Green and Great Spotted Woodpeckers were heard. The understory was a mixture of *Cistus*, Tree Heath and Strawberry Tree. Not flowering but a new shrub to the trips list was *Cistus populifolius* along the margins of the track. Forming patches and flowering was *Rumex scutatus* (French Sorrel). A Sparrowhawk flew over as we turned around and retraced our steps. This was a lovely forest to walk through and finish our last full day in the field.

We did checklist as usual before our evening meal, having a very delicious wild boar stew for our main course.



Mirror Orchid. Photo: P. Green

#### **Day 7 Saturday 24<sup>th</sup> March Ludo and Faro airport**

It was another blustery start to the day, a rainbow was seen from the hotel. We said our farewells before heading off for a short visit to Ludo Lagoon for some birdwatching before the first three of the group had to be dropped off at the airport. The weather wasn't kind to start with and there were a few heavy downpours. We did see a few Flamingos and the blue flowers of *Echium plantagineum* (Purple Viper's-bugloss) looked stunning in the sun. Good views of a Hoopoe was had, and Dunlin and a single Kentish Plover was on the mudflats. We arrived at the airport for 10.30 am and more than just the 3 chose to stay because of the weather. Making the most of a comfort stop, before we headed back out for more birdwatching. By the time we arrived back at the lagoon the tide had gone out. By now the clouds had disappeared and we had a sunny but breezy walk. An Osprey was seen along with Sanderling, Turnstones and a Yellow Wagtail. A large number of Bumblebee Orchids formed a patch on the side of the path. A large Carpenter Bee was seen flying around. We sat on a concrete bench in the shelter of *Acacia* trees and ate our picnic watching a Crested Lark on the path. A Marsh Harrier flew low over the lagoon and Shoveler and Pochard were on the water. While Hugo went to fetch his van, to pick us up to save doing a long walk, we sat in the warm sun. The last new bird to be added to the trip list was only seen by Hugo, a Booted Eagle. With everybody dropped off at the airport, it was time to return the hired vans and say our goodbyes.



Bumblebee Orchid. Photo: P. Green

## Systematic lists No. 1 Birds

		Day	1	2	3	4	5	6	7
Little Grebe	<i>Tachybaptus ruficollis</i>			x		x			x
Great Crested Grebe	<i>Podiceps cristatus</i>			x					x
Gannet	<i>Morus bassanus</i>						x		
Cormorant	<i>Phalacrocorax carbo</i>			x		x	x		x
Shag	<i>Phalacrocorax aristotelis</i>						x		
Cattle Egret	<i>Bubulcus ibis</i>		x		x	x	x	x	
Little Egret	<i>Egretta garzetta</i>			x		x	x		x
Grey Heron	<i>Ardea cinerea</i>			x	x	x	x		x
White Stork	<i>Ciconia ciconia</i>			x	x	x	x	x	x
Black Stork	<i>Ciconia nigra</i>							x	
Glossy Ibis	<i>Plegadis falcinellus</i>			x		x			
Spoonbill	<i>Platalea leucorodia</i>			x	x	x			x
Greater flamingo	<i>Phoenicopterus ruber</i>				x				x
Gadwell	<i>Anas strepera</i>			x	x	x			x
Teal	<i>Anas cracca</i>			x		x			
Mallard	<i>Anas platyrhynchos</i>			x	x	x			x
Pintail	<i>Anas acuta</i>			x		x			
Shoveler	<i>Anas clypeata</i>			x		x			x
Red-crested Pochard	<i>Netta rufina</i>			x					
Pochard	<i>Aythya farina</i>			x		x			x
Tufted Duck	<i>Aythya fuligula</i>			x					
Ring-necked Duck	<i>Aythya collaris</i>					x			
Black Kite	<i>Milvus migrans</i>				x				
Red Kite	<i>Milvus milvus</i>				x				
Short-toed Eagle	<i>Circus gallicus</i>		x		x		x		
Marsh Harrier	<i>Circus aeruginosus</i>					x			x
Hen Harrier	<i>Circus cyaneus</i>				x				
Sparrowhawk	<i>Accipiter nisus</i>						x	x	
Common Buzzard	<i>Buteo buteo</i>				x	x	x		
Booted Eagle	<i>Hieraaetus pennatus</i>								x
Bonelli's Eagle	<i>Hieraaetus fasciatus</i>								
Osprey	<i>Pandion haliaetus</i>								x
Lesser Kestrel	<i>Falco naumanni</i>				x				
Common Kestrel	<i>Falco tinnunculus</i>		x	x	x	x	x		
Peregrine	<i>Falco peregrinus</i>						x		
Red-legged Partridge	<i>Alectoris rufa</i>		x		x	x	x	x	
Pheasant	<i>Phasianus colchicus</i>					x			
Water Rail	<i>Rallus aquaticus</i>						x		
Moorhen	<i>Gallinula chloropus</i>			x	x	x	x		
Purple Gallinule	<i>Porphyrio porphyrio</i>			x		x			
Coot	<i>Fulica atra</i>			x	x	x			x
Red-knobbed Coot	<i>Fulica cristata</i>			x					
Little Bustard	<i>Tetrax tetrax</i>				x				
Great Bustard	<i>Otis tarda</i>				x				
Black-winged Stilt	<i>Himantopus himantopus</i>					x			x
Avocet	<i>Recurvirostra avosetta</i>					x			
Ringed Plover	<i>Charadrius hiaticula</i>			x					x
Kentish Plover	<i>Charadrius alexandrinus</i>			x					x
Grey Plover	<i>Pluvialis squatarola</i>			x					x



Sanderling	<i>Calidris alba</i>	x					x
Little Stint	<i>Calidris minuta</i>	x					x
Dunlin	<i>Calidris alpina</i>	x					x
Ruff	<i>Philomachus pugnax</i>				x		
Common Snipe	<i>Gallinago gallinago</i>				x		
Black-tailed Godwit	<i>Limosa limosa</i>				x		x
Whimbrel	<i>Numenius phaeopus</i>	x					x
Curlew	<i>Numenius arquata</i>	X					
Common Redshank	<i>Tringa totanus</i>	x		x			x
Greenshank	<i>Tringa nebularia</i>	x		x			x
Common Sandpiper	<i>Actitis hypoleucos</i>	x					
Turnstone	<i>Arenaria interpres</i>	x					x
Mediterranean Gull	<i>Larus melanocephalus</i>				x		
Black-headed Gull	<i>Larus ridibundus</i>				x		x
Lesser Black-backed Gull	<i>Larus fuscus</i>	x	x	x	x		x
Yellow-legged Herring Gull	<i>Larus (argentatus) cachinnans</i>	x		x	x		x
Audouin's Gull	<i>Larus audouinii</i>				x		
Sandwich Tern	<i>Sterna sandvicensis</i>				x	x	
Rock Dove	<i>Columba livia</i>	x	x	x	x	x	
Woodpigeon	<i>Columba palumbus</i>			x			x
Collared Dove	<i>Streptopelia decaocto</i>	x	x	x	x	x	x
Barn Owl	<i>Tyto alba</i>		x				
Little Owl	<i>Athene noctua</i>			x	x		x
Common Swift	<i>Apus apus</i>	x		x	x	x	
Pallid Swift	<i>Apus pallidus</i>			x			
Alpine Swift	<i>Apus melba</i>				x		
Common Kingfisher	<i>Alcedo atthis</i>	x					x
European Bee-eater	<i>Merops apiaster</i>			x		x	
Hoopoe	<i>Upupa epops</i>	x	x	x	x	x	x
Green Woodpecker	<i>Picus viridis</i>	x				x	x
Great Spotted Woodpecker	<i>Dendrocopos major</i>						x
Calandra Lark	<i>Melanocorypha calandra</i>			x			
Crested Lark	<i>Galerida cristata</i>	x	x		x		x
Thekla Lark	<i>Galerida theklae</i>			x	x		
Woodlark	<i>Lullula arborea</i>		x				
Skylark	<i>Alauda arvensis</i>						x
Sand Martin	<i>Riparia riparia</i>		x				
Crag Martin	<i>Ptyonoprogne rupestris</i>		x		x	x	
Swallow	<i>Hirundo rustica</i>	x	x	x	x	x	x
Red-rumped Swallow	<i>Hirundo daurica</i>	x		x	x		
House Martin	<i>Delichon urbica</i>	x	x	x	x	x	x
Meadow Pipit	<i>Anthus pratensis</i>		x	x	x		
Blue-headed Wagtail	<i>Motacilla flava</i>				x		
Yellow Wagtail	<i>Motacilla flava</i>						x
White Wagtail	<i>Motacilla alba</i>					x	
Wren	<i>Troglodytes troglodytes</i>	x			x	x	x
Robin	<i>Erithacus rubecula</i>				x	x	x
Common Redstart	<i>Phoenicurus phoenicurus</i>			x			
Stonechat	<i>Saxicola torquata</i>			x	x	x	
Blue Rock Thrush	<i>Monticola solitarius</i>						x

		Day	1	2	3	4	5	6	7
Blackbird	<i>Turdus merula</i>		x	x	x	x	x	x	x
Song Thrush	<i>Turdus philomelos</i>		x	x	x		x	x	
Cetti's Warbler	<i>Cettia cetti</i>			x	x	x	x		
Fan-tailed Warbler	<i>Cisticola juncidis</i>			x		x	x		x
Dartford Warbler	<i>Sylvia undata</i>					x			
Sardinian Warbler	<i>Sylvia melanocephala</i>		x	x	x	x	x	x	x
Blackcap	<i>Sylvia atricapilla</i>		x	x	x	x	x	x	
Chiffchaff	<i>Phylloscopus collybita</i>				x		x	x	x
Firecrest	<i>Regulus ignicapillus</i>					x		x	
Long-tailed Tit	<i>Aegithalos caudatus</i>							x	
Crested Tit	<i>Parus cristatus</i>					x		x	
Blue Tit	<i>Parus caeruleus</i>		x		x	x	x	x	
Great Tit	<i>Parus major</i>		x	x	x	x	x	x	
Nuthatch	<i>Sitta europaea</i>					x		x	
Short-toed Treecreeper	<i>Certhia brachydactyla</i>					x		x	
Penduline Tit	<i>Remiz pendulinius</i>					x	x		
Southern Grey Shrike	<i>L. excubitor meridionalis</i>				x				
Jay	<i>Garrulus glandarius</i>		x		x	x		x	
Azure-winged Magpie	<i>Cyanopica cyana</i>		x	x	x	x	x	x	
Magpie	<i>Pica pica</i>		x		x	x	x	x	
Chough	<i>Pyrrhocorax pyrrhocorax</i>						x		
Jackdaw	<i>Corvus monedula</i>				x		x		
Carrion Crow	<i>Corvus corone</i>				x		x		
Spotless Starling	<i>Sturnus unicolor</i>				x	x	x	x	
House Sparrow	<i>Passer domesticus</i>		x	x	x	x	x	x	x
Chaffinch	<i>Fringilla coelebs</i>					x	x	x	
Serín	<i>Serinus serinus</i>		x	x	x	x	x	x	
Greenfinch	<i>Carduelis chloris</i>		x	x	x	x	x		x
Goldfinch	<i>Carduelis carduelis</i>		x	x	x	x	x	x	x
Siskin	<i>Carduelis spinus</i>		x	x				x	
Linnet	<i>Carduelis cannabina</i>		x	x	x	x	x	x	
Cirl Bunting	<i>Emberiza cirlus</i>		x						
Rock Bunting	<i>Emberiza cia</i>					x			
Corn Bunting	<i>Miliaria calandra</i>		x	x	x	x	x	x	

## Systematic lists No. 2 Plants

	Day	1	2	3	4	5	6	7
<b>Cupressaceae</b>								
<i>Juniperus phoenicea</i>		x				x	x	
<b>Ephedraceae</b>								
<i>Ephedra fragilis</i>		x						
<b>Pinaceae</b>								
<i>Pinus pinaster</i>		x	x		x	x	x	
<i>Pinus pinea</i>		x	x	x	x	x	x	x
<b>Acanthaceae</b>								
<i>Acanthus mollis</i>		x	x				x	
<b>Aizoaceae</b>								
<i>Carpobrotus edulis</i>			x		x	x		x
<b>Anacardiaceae</b>								
<i>Pistacia lentiscus</i>		x	x			x	x	x
<b>Rhamnaceae</b>								
<i>Rhamnus alaternus</i>							x	
<b>Apiaceae</b>								
<i>Crithmum maritimum</i>			x			x		x
<i>Ferula communis</i>							x	
<i>Smyrniolus satrum</i>		x			x	x		
<i>Daucus halophilus</i>						x		
<i>Eryngium maritimum</i>					x			
<i>Eryngium campestre</i>		x	x					
<i>Scandix pecten-veneris</i>			x			x	x	
<i>Thapsia maxima</i>			x			x		x
<i>Bupleurum fruticosum</i>		x						
<b>Apocynaceae</b>								
<i>Nerium oleander</i>		x	x				x	
<i>Vinca difformis</i>		x	x		x	x	x	x
<b>Araliaceae</b>								
<i>Hedera helix</i>		x	x	x	x	x	x	x
<b>Aristolochiaceae</b>								
<i>Aristolochia baetica</i>		x	x	x			x	x



	Day	1	2	3	4	5	6	7
<b>Asteraceae</b>								
<i>Anthemis tormentosa</i>				x				
<i>Asteriscus maritimus</i>			x			x		
<i>Bellis annua</i>			x		x	x		x
<i>Bellis syvestris</i>					x			
<i>Calendula arvensis</i>		x	x	x	x	x	x	x
<i>Centaurea pullata</i>		x	x		x	x	x	
<i>Chrysanthemum coronarium</i>		x	x	x	x	x	x	x
<i>Conyza canadensis</i>		x						x
<i>Cotula coronopifolia</i>					x			x
<i>Dittrichia viscosa</i>			x				x	x
<i>Erigeron karvinskianus</i>								
<i>Galactites tomentosa</i>		x	x	x	x		x	x
<i>Reichardia gaditana</i>			x					
<i>Pallensis spinosa</i>			x					
<i>Silybum marianum</i>		x				x		
<i>Sonchus oleraceus</i>		x	x	x	x		x	x
<i>Senecio vulgaris</i>		x	x	x	x		x	x
<b>Boraginaceae</b>								
<i>Anchusa azurea</i>			x					
<i>Anchusa undulata</i>			x					
<i>Borago officinalis</i>		x	x				x	x
<i>Cerinthe major</i>						x		
<i>Cynoglossum creticum</i>		x				x	x	x
<i>Echium plantagineum</i>			x		x			x
<i>Lithodora diffusum</i>		x			x	x	x	
<i>Nonea vesicaria</i>						x		
<b>Brassicaceae</b>								
<i>Brassica nigra</i>								x
<i>Cakile maritima</i>			x					
<i>Capsella bursa-pastoris</i>		x						
<i>Lobularia maritima</i>						x		
<i>Malcolmia littorea</i>			x			x		
<i>Raphanus raphanistrum</i>			x	x	x		x	
<i>Sinapis alba</i>		x				x	x	
<i>Hornungia petraea</i>				x				
<i>Clypeola jonthlaspi</i>							x	
<i>Iberis procumbens</i>						x		
<i>Eruca sativa</i>					x			x
<b>Cactaceae</b>								
<i>Opuntia ficus-indica</i>		x	x	x	x			x

	Day	1	2	3	4	5	6	7
<b>Caprifoliaceae</b>								
<i>Lonicera implexa</i>		x					x	
<i>Viburnum tinus</i>					x		x	
<b>Caryophyllaceae</b>								
<i>Arenaria montana</i>					x			
<i>Cerastium glomeratum</i>				x				
<i>Corrigiola litoralis</i>				x				
<i>Herniaria hirsuta</i>				x				
<i>Paronychia argentea</i>			x	x	x	x	x	x
<i>Silene colorata</i>			x	x	x	x	x	x
<i>Silene latifolia</i>							x	
<i>Silene vulgaris</i>			x			x	x	
<i>Silene gallica</i>			x					
<i>Silene littorea</i>			x					
<i>Spergularia marina</i>								x
<i>Spergularia arvensis</i>				x	x			
<i>Stellaria media</i>			x					
<b>Chenopodiaceae</b>								
<i>Arthrocnemum perenne</i>			x					x
<i>Atriplex halimus</i>			x					x
<i>Beta vulgaris</i>			x			x		x
<i>Halimus halimus</i>			x					x
<i>Salsola kali</i>								x
<b>Cistaceae</b>								
<i>Cistus albidus</i>		x				x	x	
<i>Cistus ladanifer</i>				x			x	
<i>Cistus palhinhae</i>			x			x		
<i>Cistus populifolius</i>							x	
<i>Cistus monspeliensis</i>		x	x					
<i>Cistus salvifolius</i>		x	x		x	x	x	x
<i>Helianthemum origanifolium</i>						x		
<i>Tuberaria guttata</i>				x				
<i>Halimium atriplicifolium</i>						x		
<i>Halimium commutatum</i>						x		
<b>Convolvulaceae</b>								
<i>Convolvulus althaeoides</i>			x			x	x	x
<b>Crassulaceae</b>								
<i>Sedum ochroleucon</i>		x	x					
<i>Umbilicus rupestris</i>		x					x	
<i>Crassula tillaea</i>				x				

	Day	1	2	3	4	5	6	7
<b>Cucurbitaceae</b>								
<i>Bryonia cretica</i>							x	
<b>Ericaceae</b>								
<i>Arbutus unedo</i>		x			x	x	x	
<i>Calluna vulgaris</i>							x	
<i>Erica arborea</i>					x		x	
<i>Erica umbellata</i>					x		x	
<i>Corema album</i>						x		
<b>Euphorbiaceae</b>								
<i>Euphorbia characias</i>					x			
<i>Euphorbia helioscopia</i>		x	x		x	x	x	x
<i>Euphorbia peplus</i>			x					x
<i>Mercurialis annua</i>		x	x		x			
<i>Ricinus communis</i>		x	x					x
<b>Fabaceae</b>								
<i>Acacia dealbata</i>						x		
<i>Acacia longifolia</i>			x			x		x
<i>Acacia retinodes</i>					x	x	x	x
<i>Anagyris foetida</i>		x						
<i>Astragalus boeticus</i>						x		
<i>Astragalus lusitanicus</i>						x	x	
<i>Astragalus echinatus</i>				?				
<i>Ceratonia siliqua</i>		x	x				x	
<i>Coronilla valentina</i>						x		
<i>Genista hirsuta</i>		x						
<i>Lathyrus clymenum</i>			x					
<i>Lathyrus ochrus</i>						x		
<i>Lupinus angustifolius</i>			x	x				x
<i>Lupinus luteus</i>						x	x	x
<i>Retama monosperma</i>			x	x	x			
<i>Medicago minima</i>			x					
<i>Medicago marina</i>			x		x			
<i>Medicago polymorpha</i>			x		x			x
<i>Ononis natrix</i>						x		
<i>Psoralea bituminosa</i>		x	x			x	x	
<i>Ulex parviflorus</i>		x			x		x	
<i>Scorpiurus muricatus</i>							x	
<i>Spartium junceum</i>			x					
<i>Trifolium subterraneum</i>				x				
<i>Trifolium stellatum</i>			x					
<i>Vicia lutea</i>			x					
<i>Vicia sativa</i>			x					x



	Day	1	2	3	4	5	6	7
<b>Fagaceae</b>								
<i>Quercus ilex</i>		x						
<i>Quercus coccifera</i>		x				x	x	
<i>Quercus suber</i>		x			x		x	x
<b>Frankeniaceae</b>								
<i>Frankenia laevis</i>					x	x		
<b>Gentianaceae</b>								
<i>Centaurium erythraea</i>		x				x	x	
<b>Geraniaceae</b>								
<i>Erodium cicutarium</i>			x	x	x	x	x	x
<i>Erodium ciconium</i>			x					
<i>Erodium malacoides</i>		x						
<i>Erodium moschatum</i>		x	x	x	x	x	x	x
<i>Geranium dissectum</i>								x
<i>Geranium molle</i>				x	x			x
<i>Geranium purpureum</i>							x	
<i>Geranium rotundifolium</i>		x	x				x	x
<b>Guttiferae</b>								
<i>Hypericum perforatum</i>		x					x	
<b>Lamiaceae</b>								
<i>Lavandula stoechas</i>		x		x		x	x	x
<i>Marrubium vulgare</i>				x				
<i>Phlomis purpurea</i>		x					x	
<i>Rosmarinus officinalis</i>		x					x	
<i>Salvia verbenaca</i>		x	x			x	x	x
<i>Stachys arvensis</i>				x	x			
<i>Teucrium pseudochamaepity</i>							x	
<i>Thymus camphoratus</i>						x		
<i>Thymus capitatus</i>		x						
<b>Linaceae</b>								
<i>Linum bienne</i>			x		x			x
<b>Malvaceae</b>								
<i>Malva pseudolavatera</i>		x	x	x	x	x	x	x
<i>Malva sylvestris</i>			x	x				
<b>Meliaceae</b>								
<i>Melia azedarach</i>		x						

	Day	1	2	3	4	5	6	7
<b>Moraceae</b>								
<i>Ficus carica</i>		x	x		x	x	x	
<b>Myrtaceae</b>								
<i>Myrtus communis</i>		x						
<b>Oleaceae</b>								
<i>Jasminum fruticans</i>		x				x	x	
<i>Olea europaea</i>		x	x	x	x	x	x	x
<i>Phillyrea angustifolia</i>						x		
<b>Orobanchaceae</b>								
<i>Cistanche phelypaea</i>			x					x
<b>Oxalidaceae</b>								
<i>Oxalis pes-caprae</i>		x	x	x	x	x	x	x
<b>Paeoniaceae</b>								
<i>Paeonia broteri</i>		x					x	
<b>Papaveraceae</b>								
<i>Fumaria capreolata</i>		x			x		x	
<i>Fumaria occidentalis</i>			x		x			x
<i>Fumaria officinalis</i>			x		x			
<i>Papaver muralis</i>			x		x			
<i>Papaver rhoeas</i>			x		x		x	x
<b>Plantaginaceae</b>								
<i>Plantago coronopus</i>			x		x	x		x
<i>Plantago afra</i>				x				
<i>Plantago lagopus</i>			x					x
<b>Plumbaginaceae</b>								
<i>Armeria pungens</i>					x	x		
<i>Limoniastrum monopetalum</i>			x		x	x		x
<b>Polygonaceae</b>								
<i>Emex spinosa</i>			x		x	x		x
<i>Rumex bucephalophorus</i>				x	x			
<i>Rumex scutatus</i>							x	
<b>Primulaceae</b>								
<i>Anagallis arvensis</i>			x		x	x		x
<i>Anagallis monelli</i>						x		

	Day	1	2	3	4	5	6	7
<b>Ranunculaceae</b>								
<i>Anemone palmata</i>		x	x					
<i>Clematis viticella</i>		x						
<i>Ranunculus ficaria</i>		x						
<i>Ranunculus bullatus</i>		x						
<b>Resedaceae</b>								
<i>Reseda media</i>						x		
<b>Rosaceae</b>								
<i>Pyrus pyraeaster</i>		x	x	x			x	
<i>Prunus dulcis</i>		x	x	x	x	x	x	x
<i>Sanguisorba minor</i>		x	x			x	x	x
<b>Rubiaceae</b>								
<i>Galium aparine</i>							x	x
<i>Rubia peregrina</i>		x	x		x	x	x	x
<i>Sherardia arvensis</i>		x	x			x	x	x
<i>Valantia hispida</i>		x				x		
<b>Rutaceae</b>								
<i>Ruta montana</i>		x					x	
<b>Santalaceae</b>								
<i>Osyris quadripartita</i>		x					x	
<b>Scrophulariaceae</b>								
<i>Antirrhinum majus</i>						x		
<i>Bellardia trixago</i>				x				
<i>Linaria algarviana</i>				x	x			
<i>Linaria bipunctata</i>			x					
<i>Linaria viscosa</i>				x				
<i>Misopates orontium</i>				x		x		
<i>Scrophularia scorodonia</i>							x	
<i>Verbascum sinuatum</i>							x	
<b>Solanaceae</b>								
<i>Hyoscyamus albus</i>						x		
<i>Solanum nigrum</i>			x				x	
<b>Tamaricaceae</b>								
<i>Tamarix africana</i>		x	x		x			x
<b>Thymelaeaceae</b>								
<i>Daphne gnidium</i>		x						



	Day	1	2	3	4	5	6	7
<b>Urticaceae</b>								
<i>Urtica membranacea</i>					x	x		x
<b>Valerianaceae</b>								
<i>Centranthus calcitrapae</i>			x	x	x	x		x
<i>Fedia cornucopiae</i>		x	x			x	x	
<b>Agavaceae</b>								
<i>Agave americana</i>		x	x			x	x	x
<b>Amaryllidaceae</b>								
<i>Leucojum tricophyllum</i>			x					
<i>Narcissus bulbocodium</i>		x		x	x	x		
<i>Narcissus papyraceus</i>		x				x	x	
<i>Narcissus gaditanus</i>						x		
<i>Pancratium maritimum</i>			x		x	x		
<b>Dioscoreaceae</b>								
<i>Tamis communis</i>		x			x		x	
<b>Araceae</b>								
<i>Arisarum vulgare</i>					x	x	x	
<i>Arisarum simorrhinum</i>		x						
<b>Iridaceae</b>								
<i>Freesia x hybrida</i>						x		
<i>Gladiolus italicus</i>						x	x	
<i>Gynandris sisyrinchium</i>		x		x	x	x	x	x
<i>Iris albicans</i>						x	x	
<i>Iris foetidissima</i>		x		x			x	
<i>Romulea bulbocodium</i>				x	x			
<b>Liliaceae</b>								
<i>Allium subvillosum</i>		x				x		x
<i>Asphodelus fistulosus</i>		x	x		x	x		x
<i>Asphodelus ramosus</i>		x	x	x	x	x	x	x
<i>Asparagus albus</i>		x	x	x		x	x	x
<i>Dipcadi serotinum</i>				x				
<i>Hyacinthoides hispanica</i>		x					x	
<i>Muscari neglectum</i>		x	x		x	x		
<i>Muscari comosum</i>		x	x					
<i>Ornithogalum umbellatum</i>		?		?				
<i>Ruscus aculeatus</i>		x			x		x	
<i>Scilla monophyllos</i>					x			
<i>Scilla peruviana</i>		x				x	x	
<i>Smilax aspera</i>		x			x	x	x	x

Day	1	2	3	4	5	6	7
<i>Tulipa sylvestris</i> ssp. <i>australis</i>	x				x		
<i>Urginea maritima</i>	x	x	x	x	x		
<b>Orchidaceae</b>							
<i>Cephalanthera longifolia</i>	x						
<i>Aceras anthropophorum</i>						x	
<i>Gennaria diphylla</i>					x		
<i>Ophrys bombyliflora</i>	x				x	x	x
<i>Ophrys speculum</i>	x				x	x	
<i>Ophrys tenthredinifera</i>	x				x		
<i>Ophrys fusca</i>	x				x	x	
<i>Ophrys lutea</i> ( <i>sicula</i> )	x				x	x	
<i>Orchis tridentata</i>	x						
<i>Orchis olbiensis</i>						x	
<i>Orchis morio</i> ( <i>picta</i> )			x				
<i>Orchis champagneuxii</i>				x			
<i>Orchis italica</i>	x					x	
<i>Serapias lingua</i>				x			
<b>Zosteraceae</b>							
<i>Zostera marina</i>		x					x
<b>Juncaceae</b>							
<i>Cyperus capitatus</i>		x					
<i>Juncus acutus</i>		x					x
<i>Juncus effusus</i>							x
<i>Juncus maritimus</i>		x					x
<b>Poaceae</b>							
<i>Anisantha diandra</i>							x
<i>Anisantha madritensis</i>							x
<i>Arundo donax</i>	x		x				x
<i>Hordeum murinum</i>							x
<i>Phragmites australis</i>		x	x		x		
<i>Poa infirma</i>	x	x	x	x	x	x	x
<i>Poa annua</i>							x
<b>Palmae</b>							
<i>Chamaerops humilis</i>	x						
<b>Pteridophyta</b>							
<i>Asplenium ceterach</i>	x				x		
<i>Asplenium onopteris</i>				x		x	
<i>Polypodium cambricum</i>						x	



Castro Verde Plains. Photo: H. Sampaio

### Systematic lists No. 3 Butterflies

		Day	1	2	3	4	5	6	7
	<b>Papilionidae</b>								
Swallowtail	<i>Papilio machaon</i>					x			
Spanish Festoon	<i>Zerynthia rumina</i>				x				
	<b>Pieridae</b>								
Large White	<i>Pieris brassicae</i>					x			
Clouded Yellow	<i>Colias crocea</i>						x		
Brimstone	<i>Gonepteryx rhamni</i>					x	x		
Cleopatra	<i>Gonepteryx cleopatra</i>					x			
	<b>Lycaenidae</b>								
Green Hairstreak	<i>Callophrys rubi</i>		?				x		
Small Copper	<i>Lycaena phlaeas</i>					x			
	<b>Satyridae</b>								
Small Heath	<i>Coenonympha pamphilus</i>				x				

#### Systematic lists No. 4 Other notables

		Day	1	2	3	4	5	6	7
Fiddler Crab	<i>Uca tangeri</i>			x					
Yellow Scorpion	<i>Buthus occitanus</i>				x				
Centipede	<i>Scolopendra cingulata</i>				x				
Spanish Terrapin	<i>Mauremys leprosa</i>			x					
Pond Slider	<i>Trachemys scripta</i>			x					
Common Toad	<i>Bufo bufo</i>						x		
Moorish Gecko	<i>Terentola mauretanica</i>	x							
Iberian Hare	<i>Lepus granatensis</i>				x		x		
Southern Smooth Snake	<i>Coronella girondica</i>	x							



White Stork on nest, buildings are nesting site for Lesser Kestrel, Casével Station. Photo: H. Sampaio