

Southern Portugal

Wildlife at Leisure

Greentours Trip Report

19th – 26th March 2016



Group at Cape Sardão (Photo DLeitão)

Group:

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Daily report & systematic lists by Domingos Leitão, except the plant list by Domingos Leitão & Martin Catt

Day 1 Saturday 19th March Arrival at Faro and transfer to the hotel

Group arrived at the international airport of Faro in two rounds. Alastair, Ruth and Nigel arrived first, Helen and Martin arrived later. By the time of the second arrival we already have sorted all paper work for the van, and went directly for a toast and drinks in Faro beach, in a place with view to the Atlantic Ocean.

After the snack we had time for the first nature walk in the Ria Formosa Nature Park, between the tidal lagoon and the salt pans. We saw our first waders, egrets and flamingos and our first nice flowers in the saltmarshes and mudflats of the area. Then we went for one and half hour driving to our hotel in the hills.

Arrived in the Quinta we were warmly received by Frank and Daniela. Frank show us the place (and what a place!) and the “rules” of the house and Daniela prepared us a delicious supper.

Day 2 Sunday 20th March Corte Brique, Santa Clara and secret valley

Today we stood near the hotel area. After an early breakfast we drove 15 minutes to our first stop the small village of Corte Brique. We walked for a couple of hours in the mosaic of small fields, waterlines and hedgerows. Small birds were plenty and diverse. Highlights were Little Owl, Hoopoe, Lesser-spotted Woodpecker, Azure-winged Magpie and Short-toed Tree-creeper. Larger birds included a pair of Short-toed Eagle, spotted by Helen, and other fauna included a bizarre reptile, called Iberian Worm Lizard, and Spanish Festoon.

Near lunch time, we went to Santa Clara for a picnic by the river Mira. While we were exploring a flower meadow, we were surprised by a heavy shower, which made us have our sandwich near the cover of the van. After the picnic we were able to explore the area, that produced Bonelli's Eagle, Iberian Chiffchaff, a Common Toad and many flowers, including a profusion of the tinny purple toadflax *Linaria amethystea*.

Mid afternoon we went for a coffee in Santa Clara and after to a last place in our way to the hotel. The “Secret Valley”, so called by Frank and family due to a left turn in the trail that is difficult to find by newcomers. That was our case, we went in the wrong direction, but manage to find Dartford Warbler, Firecrest, Crested Tit and Chapman's Green Hairstreak. Not bad for a wrong turn in the trail. Dinner and wine were delicious and the talk at the table animated.



Chapman's Green Hairstreak
Calophrys avis
Photo DLeitão

Day 3 Monday 21st March Castro Verde dry-grassland

Today we went further east to Castro Verde plain. The day started with a dense fog, that persisted after one hour driving to Castro Verde. After a short stop in a local supermarket, for toilet and extra waters, we changed the dry-grassland for first exploring the river Cobres. By the river in the fog we manage to find Little Owl, Great-spotted Cuckoo, Hoopoe and Red-rumped Swallow. On the flower side, among the Large Gum Cistus, we found Dipcadi and Pink Butterfly Orchid and in the river margins there were two species of narcissus.

When the fog started to dissipate we went to explore the grassland between São Marcos and Guerreiro, a private Nature Reserve known for the bustard populations. Before lunch we already have seen more than 100 Great Bustards, plus Little Bustard and Black Kite. After picnic we carry on seeing nice birds, like Red Kite, Spanish Imperial and Golden eagles, Hen and Montagu's Harrier, Lesser Kestrel and Calandra Lark. When driving back to Castro Verde we saw the first Bee-eaters and Woodchat Shrike. With loads of nice birds in our memory we drive back to the hotel for another Daniela's tasty meals.



Castro Verde plain. Photo DLeitão

Day 4 Tuesday 22nd March Salgados lagoon and Tunes orchid spot

No fog today. After breakfast we drive one hour to the Algarve, to the coastal lagoon called Salgados. This small wetland is normally overloaded with waterbirds of many species. On our arrival we were welcomed by mixed flocks of Common and Alpine swifts. Our morning was filled with Flamingo, Spoonbill, Glossy Ibis, Black-winged Stil, Avocet, Marsh Harrier and many other birds. On the non-bird wildlife, we might refer Sawfly orchid, Iberian Hare, Spanish Marble White and special Yellow Scorpion.

After picnic we went for another part of the lagoon, mostly covered with mudflats. Mudflats in the Algarve are synonym of Kentish, Ringed and Grey plovers, Sanderling, Redshank, Greenshank, Snipe and Black-tailed Godwit. In an area with reed we saw the exotic Purple Swamp Hen.

In mid-afternoon we decided to change places for an area more interesting for botanists. We drive 20 minutes to Tunes, to explore an limestone area with low *machis*. In a couple of hours we saw 10 species of orchids and many other species, including seven species of *Ophrys*, some quite photogenic. Forest passerines were also abundant and Helen saw the single Booted Eagle of the tour. With the memory cards full of nice flowers we drive back for the hotel and for the seven o'clock dinner.

Day 5 Wednesday 23rd March Southwest Coast Nature Park

Today we went to the rocky coast to the Southwest Coast Nature park. We drive west for 50 minutes and arrive in the coastal machis and meadows near cape Sardão. Interesting birds were White Storks, breeding in the sea cliffs, Short-toed Eagle, Peregrine and Gannet, still on migration. But the real stars of the place were flowers. Among the endemic cistus (*Cistus palhinhae*), there were two species of tongue orchid, Common (*Serapias lingua*) and impressive spikes of Heart-flowered (*S. cordigera*), plus Two-leaved Genaria, Iberian Fritillaria, an endemic species of squil (*Scilla vicentina*) and the parasitic *Citinus hipocistis*. We stood a couple of hours looking for nice flowers and basking in the sun and then went south.

We picnic by the sea on Amoreira beach, after spotting an Osprey in a small fish-farm. After lunch we went for a walk in a nature trail taking us by the dunes and cliff top. Flowers were plenty and spectacular, with gorgeous Pink Snapdragon, Malcomnia littorea, Dipsacids and Hoop-peticoat Daffodill. On the butterflies we had Green Hairstreak and Black-eyed Blue and on the birds only Thekla Lark. We went to the last place, but stopped in the Sweet Potato Museum, for toilet, coffee and sweet potato cake.

Near Odeceixe we stop by the side of the road for *Gladiolus iliricus* and *Simethis mattiazzii* and went to explore the river valley near Vale D'Alho. Here we had mixed flocks of Common, Pallid and Alpine swifts, Iberian Chiffchaff and Firecrest. Other interesting creatures included Large Tortoiseshell and two Moorish Geckos. We drive one hour back to our hotel, Frank's tells and Daniela's cookings.



Moorish Gecko *Tarentola mauritanica*.
Photo DLeitão

Day 6 Thursday 24th March The Algarve Barrocal

Today we drive one hour south to the Algarve huge limestone area, locally known by the name of Barrocal. These are hold fields, surrounded by stone walls, covered by a mix of Olive, Fig, Carrob and Almond trees and carpeted by many orchid and other bulbs. The first stop, near Castelo de Paderne produced 12 species of orchids, plus Wild Tulip, Algarve's Hyacinth and many other flowers. Birds included Short-toed eagle, Bee-eater, Green Woodpecker and many passerines. Other creatures were Spanish Terrapins, plus nice butterflies, like Spanish Festoon and Brimstone.

We had our picnic in the Benémola valley, among many birds, flowers and butterflies. New species included Yellow Anemone, Sword-leaved Helleborine, Man Orchid, Cleopatra butterfly and Kingfisher. After picnic we went for a coffee and beer in Benafim. After coffee we did a bit of Rocha da Pena nature trail, starting at Penina. We saw Swallowtail, Red Admiral, Violet Limodora and the southern variety of the Early Purple Orchid, called *Orchis olbiensis*. Then one hour driving back, to dinner and wine.

Day 7 Friday 25th March Luzianes and Secret Valley

Today the group choose not to drive for and stay to explore places in 15 minutes range from the hotel. Frank told us about a valley close to Luzianes very good to Cirl Bunting. Has soon as we arrive there we saw and heard several Cirl Buntings. Besides this nice bird, we saw Cuckoo, Kingfisher, Woodlark, Iberian Chiffchaff and Crested Tit. On the butterfly side, we saw Scarce Swallowtail and Bath White. We entered in to an old mine to saw one Lesser Horseshoe Bat. We had picnic by the river Mira in Santa Clara and had Iberian Green Frog, Long-tailed Tit and a large Egyptian Locust.

After a coffee stop we decided to give a second try to the Secret Valley. We saw and photographed a male Woodchat Shrike on the way to the place. Before the valley we saw a pair of Blue Rock Thrushes in the old house that Frank had tipped us before. In the valley we had plenty of Sardinian, Dartford and Subalpine warblers, plus Firecrest, Rock Bunting and the usual Short-toed Eagle. On the butterfly side we had a few new species for tour, Bath White, Western Dappled White and Knapweed Fritillary. When we were driving back to the hotel Ruth spotted a lovely population of Wild Tulip. Last dinner was delicious as usual and we done a revision of the week, with a moment to everybody point out the highlights of the week.



Wild Tulip *Tulipa sylvestris*.
Photo DLeitão

Day 8 Saturday 26th March Quinta do Lago and airport

We had a breakfast earlier than usual. After saying goodbye to Frank and Daniela we leave straight to Faro International airport, were we arrive around 8am. We said goodbye to Helen and Martin who had to catch an early flight and went with the rest of the group to the Ria Formosa nature Park. We had two hours to explore the Quinta do Lago nature trail. The light was very good and birds were plenty. In the mudflats we had Ringed, Kentish and Grey plovers, Dunlin, Sanderling, Turnstone, Redshanks and Whimbrel, among loads of Fiddler Crabs. In the fresh water lagoon we had Little Bittern, Purple Gallinule, Gadwall, Red-crested Pochard and the exotic Black-headed Weaver. On the plant side, we should refer nice numbers of Spring Snowflake and Cistanche. Around half past ten we went back to the airport, to the end of the tour.



Highlights of the week

Nigel – Orchids, especially the first place near Tunes.
Helen – Great Bustard.
Martin – Numbers of Great Bustard.
Alastair – Mirror Orchids and Daniela's puddings.
Ruth – Scent of cistus and lavenders.

Mirror Orchid *Ophrys speculum*. Photo DLeitão

Systematic List Number 1 – Birds (144 species)

		Day	1	2	3	4	5	6	7	8
Little Grebe	<i>Tachybaptus ruficollis</i>					X				X
Great Crested Grebe	<i>Podiceps cristatus</i>									X
Black-necked Grebe	<i>Podiceps nigricollis</i>					2				
Gannet	<i>Morus bassanus</i>						X			
Cormorant	<i>Phalacrocorax carbo</i>		2	1	1	X	X		X	X
Little Bittern	<i>Ixobrychus minutus</i>									1
Cattle Egret	<i>Bubulcus ibis</i>			1	X	X	X	X		
Little Egret	<i>Egretta garzetta</i>		3	1	2	X	X	1		X
Grey Heron	<i>Ardea cinerea</i>		1	1	1	X				
White Stork	<i>Ciconia ciconia</i>		X		X	X	X	X	X	X
Glossy Ibis	<i>Plegadis falcinellus</i>					60				
Spoonbill	<i>Platalea leucorodia</i>				1	20				
Greater Flamingo	<i>Phoenicopterus ruber</i>		15			X				
Gadwall	<i>Anas strepera</i>					X				X
Teal	<i>Anas crecca</i>					X				
Mallard	<i>Anas platyrhynchos</i>				X	X	X	X		X
Pintail	<i>Anas acuta</i>					1				
Shoveler	<i>Anas clypeata</i>					X				X
Red-crested Pochard	<i>Netta rufina</i>									X
Pochard	<i>Aythya ferina</i>					X				X
Black Kite	<i>Milvus migrans</i>				X					
Red Kite	<i>Milvus milvus</i>				2					
Short-toed Eagle	<i>Circaetus gallicus</i>			2	1		1	3	1	
Marsh Harrier	<i>Circus aeruginosus</i>					1				
Hen Harrier	<i>Circus cyaneus</i>				1					
Montagu's Harrier	<i>Circus pygargus</i>				x					
Common Buzzard	<i>Buteo buteo</i>		1		X		X	X	X	X
Spanish Imperial Eagle	<i>Aquila adalberti</i>				2					
Golden Eagle	<i>Aquila chrysaetos</i>				1					
Booted Eagle	<i>Hieraaetus pennatus</i>					1				
Bonelli's Eagle	<i>Hieraaetus fasciatus</i>			1	1					
Osprey	<i>Pandion haliaetus</i>						1			
Lesser Kestrel	<i>Falco naumanni</i>				X					
Common Kestrel	<i>Falco tinnunculus</i>				X	X	X	1		
Merlin	<i>Falco columbarius</i>				1					
Peregrine	<i>Falco peregrinus</i>						2			
Red-legged Partridge	<i>Alectoris rufa</i>		X	X	X	X	X		X	
Quail	<i>Coturnix coturnix</i>				X					
Water Rail	<i>Rallus aquaticus</i>								X	
Moorhen	<i>Gallinula chloropus</i>					X				X
Purple Gallinule	<i>Porphyrio porphyrio</i>					2				X
Coot	<i>Fulica atra</i>		20			X				X
Little Bustard	<i>Tetrax tetrax</i>				3					
Great Bustard	<i>Otis tarda</i>				150					
Black-winged Stilt	<i>Himantopus himantopus</i>					X				
Avocet	<i>Recurvirostra avosetta</i>					X				
Little Ringed Plover	<i>Charadrius dubius</i>				2					
Ringed Plover	<i>Charadrius hiaticula</i>		1			X				X

		Day	1	2	3	4	5	6	7	8
Kentish Plover	<i>Charadrius alexandrinus</i>		X			X				X
Grey Plover	<i>Pluvialis squatarola</i>		X			X				X
Sanderling	<i>Calidris alba</i>		X			X				X
Dunlin	<i>Calidris alpina</i>		50			X				X
Common Snipe	<i>Gallinago gallinago</i>				2	2				
Black-tailed Godwit	<i>Limosa limosa</i>					2				
Whimbrel	<i>Numenius phaeopus</i>		1							X
Common Redshank	<i>Tringa totanus</i>		X			X				X
Greenshank	<i>Tringa nebularia</i>		X			1				
Green Sandpiper	<i>Tringa ochropus</i>				2					1
Common Sandpiper	<i>Actitis hypoleucos</i>		2			X				
Turnstone	<i>Arenaria interpres</i>		X							X
Mediterranean Gull	<i>Larus melanocephalus</i>					X				
Black-headed Gull	<i>Larus ridibundus</i>		X			X				X
Les. Black-backed Gull	<i>Larus fuscus</i>		X			X	X			
Grt. Black Backed Gull						1				
Yellow-legged Gull	<i>Larus michaelis</i>		X			X	X			X
Caspian Tern	<i>Sterna caspia</i>		3							
Sandwich Tern	<i>Sterna sandvicensis</i>		X			X				1
Black-bel. Sandgrouse	<i>Pterocles orientalis</i>				15					
Stock Dove	<i>Columba oenas</i>					X				
Woodpigeon	<i>Columba palumbus</i>		X	1			X	X	X	X
Collared Dove	<i>Streptopelia decaocto</i>		X	X	X	X	X	X	X	X
Great Spotted Cuckoo	<i>Clamator glandarius</i>				4					
Cuckoo	<i>Cuculus canorus</i>		1	2		X		X	X	
Little Owl	<i>Athene noctua</i>			1	2	1	1	1		X
Common Swift	<i>Apus apus</i>					X	X			
Pallid Swift	<i>Apus pallidus</i>						X			
Alpine Swift	<i>Apus melba</i>					X	X			
Common Kingfisher	<i>Alcedo atthis</i>			2	1			1	X	
European Bee-eater	<i>Merops apiaster</i>				4			X	X	
Hoopoe	<i>Upupa epops</i>			X	X	X	2	2	X	X
Wryneck	<i>Jynx torquilla</i>									1
Green Woodpecker	<i>Picus viridus</i>		X	X		X	X	X	X	
Gt. Spotted Woodpecker	<i>Dendrocopos major</i>		X	X			X	X	X	
Ls. Spotted Woodpecker	<i>Dendrocopos minor</i>			3						
Calandra Lark	<i>Melanocorypha calandra</i>				X					
Crested Lark	<i>Galerida cristata</i>		X	X	X	X	X			
Thekla Lark	<i>Galerida theklae</i>				X	X	X			X
Woodlark	<i>Lullula arborea</i>			X	X		3	1	X	
Skylark	<i>Alauda arvensis</i>				X					
Crag Martin	<i>Ptyonopraegne rupestris</i>			X						
Swallow	<i>Hirundo rustica</i>		X	X	X	X	X	X	X	X
Red-rumped Swallow	<i>Hirundo daurica</i>			X	X	X	X	X	X	X
House Martin	<i>Delichon urbica</i>			X	X	X	X	X	X	X
Meadow Pipit	<i>Anthus pratensis</i>			X	X	X			X	
Water Pipit	<i>Anthus spinoletta</i>					2				
Blue-headed Wagtail	<i>Motacilla flava</i>		X			X				X
Grey Wagtail	<i>Motacilla cinerea</i>							1	X	
White Wagtail	<i>Motacilla alba</i>			1	1	X	X	1	X	
Wren	<i>Troglodytes troglodytes</i>		X	X		X	X	X	X	

		Day	1	2	3	4	5	6	7	8
Dunnock	<i>Prunella modularis</i>			X						
Robin	<i>Erithacus rubecula</i>			X			X	X	X	
Nightingale	<i>Luscinia megarhynchos</i>	1								
Stonechat	<i>Saxicola torquata</i>			X	X	X	X		X	
Blue Rock Thrush	<i>Monticola solitarius</i>								2	
Blackbird	<i>Turdus merula</i>	X	X	X	X	X	X	X	X	X
Song Thrush	<i>Turdus philomelos</i>		1		X	1	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	X	X	X	X	
Dartford Warbler	<i>Sylvia undata</i>			X				X	X	
Subalpine Warbler	<i>Sylvia cantillans</i>								X	
Sardinian Warbler	<i>Sylvia melanocephala</i>	X	X	X	X	X	X	X	X	X
Blackcap	<i>Sylvia atricapilla</i>	X	X	X	X	X	X	X	X	
Chiffchaff	<i>Phylloscopus collybita</i>	1	X	X	X	X			X	X
Iberian Chiffchaff			1			1	X	X		
Firecrest	<i>Regulus ignicapillus</i>			3			X	X	X	
Long-tailed Tit	<i>Aegithalos caudatus</i>			X			X	X	X	
Crested Tit	<i>Parus cristatus</i>			2					X	
Blue Tit	<i>Parus caeruleus</i>			X	X	X	X	X	X	
Great Tit	<i>Parus major</i>			X		X	X	X	X	
Nuthatch	<i>Sitta europaea</i>			X				X	X	
Short-toed Treecreeper	<i>Certhia brachydactyla</i>			X		X		X	X	
Southern Grey Shrike	<i>Lanius meridionalis</i>	1			X		X	1		
Woodchat Shrike	<i>Lanius senator</i>			2					1	
Jay	<i>Garrulus glandarius</i>			X	X			X	X	
Azure-winged Magpie	<i>Cyanopica cyana</i>	X	X	X	X	X	X	X	X	X
Magpie	<i>Pica pica</i>	3	X		X					X
Jackdaw	<i>Corvus monedula</i>				X					
Carrion Crow	<i>Corvus corone</i>			X	X		X		X	
Raven	<i>Corvus corax</i>				X					
Spotless Starling	<i>Sturnus unicolor</i>			X	X		X	X	X	X
House Sparrow	<i>Passer domesticus</i>	X	X	X	X	X	X	X	X	X
Spanish Sparrow	<i>Passer hispaniolensis</i>				X	X				
Black-headed Weaver	<i>Ploceus cucullatus</i>									X
Common Waxbill	<i>Estrilda astrild</i>			40						
Chaffinch	<i>Fringilla coelebs</i>			X				X	X	
Serín	<i>Serinus serinus</i>			X	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	X	X
Siskin	<i>Carduelis spinus</i>			X				X	X	
Linnet	<i>Carduelis cannabina</i>			X	X	X	X	X		
Bullfinch	<i>Pyrrhula pyrrhula</i>			X						
Cirl Bunting	<i>Emberiza cirlus</i>								X	
Rock Bunting	<i>Emberiza cia</i>			X					X	
Corn Bunting	<i>Miliaria calandra</i>			X	X	X	X	X	X	

Systematic List Number 2 – Other vertebrates (12 species)

		Day	1	2	3	4	5	6	7	8
Amphibians										
Common Toad	<i>Bufo bufo</i>			1						
Iberian Water Frog	<i>Rana perezi</i>			X	X	X		X	X	
Stripless Tree Frog	<i>Hyla meridionalis</i>		1			1				
Reptiles										
Large Psammodromus	<i>Psammodromus algirus</i>						X	X	X	
Moorish Gecko	<i>Tarentola mauritanica</i>						2			
Western Tree-toed Skink	<i>Chalcides striatus</i>						1			
Iberian Worm Lizard	<i>Blanus cinereus</i>			1	1				1	
Spanish Terrapin	<i>Mauremys leprosa</i>							5		
Mammals										
Iberian Hare	<i>Lepus granatensis</i>					X				
Rabbit	<i>Oryctolagus cuniculus</i>					X				
Short-toed Vole	<i>Microtus agrestis</i>					1				
Lesser Horseshoe Bat	<i>Rhinolophus hipposideros</i>								1	



Common Toad *Bufo bufo*. Photo DLeitão

Systematic List Number 3 – Butterflies (27 species)

		Day	1	2	3	4	5	6	7	8
Papilionidae										
Swallowtail	<i>Papilio machaon</i>							1		
Scarce Swallowtail	<i>Iphiclydes podalirius</i>								1	
Spanish Festoon	<i>Zerynthia rumina</i>			X		X		X	X	
Pieridae										
Large White	<i>Pieris brassicae</i>			X	X	X	X	X	X	
Small White	<i>Artogeia rapae</i>			X	X	X	X	X	X	
Bath White	<i>Pontia daplidice</i>									X
Western Dappled White	<i>Euchloe crameri</i>									X
Green-striped White	<i>Euchloe belemia</i>				X					
Clouded Yellow	<i>Colias crocea</i>			X	X	X	X	X	X	
Brimstone	<i>Gonepteryx rhamni</i>							X	X	
Cleopatra	<i>Gonepteryx cleopatra</i>							X	X	
Lycaenidae										
Green Hairstreak	<i>Callophrys rubi</i>						X	X	X	
Chapman's Gr Hairstreak	<i>Callophrys avis</i>			1						
Small Copper	<i>Lycaena phlaeas</i>			X	X			X	X	
Long-tailed Blue	<i>Lampides boeticus</i>							X		
Holly Blue	<i>Celastrina argiolus</i>									X
Black-eyed Blue	<i>Glaucopsyche melanops</i>						X	X	X	
Iberian Brown Argus	<i>Aricia crameri</i>				X		X			
Common Blue	<i>Polyommatus icarus</i>					X				
Nymphalidae										
Large Tortoiseshell	<i>Nymphalis polychloros</i>						1	1	X	
Peacock	<i>Inachis io</i>									
Red Admiral	<i>Vanessa atalanta</i>							X	X	
Painted Lady	<i>Cynthia cardui</i>				X	1	1	X		
Knapweed Fritillary	<i>Melitaea phoebe</i>									X
Satyridae										
Spanish Marbled White	<i>Melanargia ines</i>					X				
Small Heath	<i>Coenonympha pamphilus</i>			X	X			1	X	
Speckled Wood	<i>Pararge aegeria</i>			X			X	X	X	

Systematic List Number 4 – Other notable invertebrates (5 species)

		Day	1	2	3	4	5	6	7	8
Fiddler Crab	<i>Uca tangeri</i>									X
Yellow Scorpion	<i>Buthus occitanus</i>				X	X	X			
Med. Banded Centipede	<i>Scolopendra cingulata</i>			2						
Red-veined Darter	<i>Sympetrum fonscolombii</i>				X					
Egyptian Locust	<i>Anacridium aegyptium</i>								X	

Systematic List Number 5 – Plants (240 species)

Day	1	2	3	4	5	6	7	8
Cupressaceae								
<i>Juniperus phoenicea</i>					X			
Pinaceae								
<i>Pinus pinaster</i>		X		X	X			
<i>Pinus pinea</i>	x	X	X	X	X			
Aizoaceae								
<i>Carpobrotus edulis</i>	x			X	X			
Anacardiaceae								
<i>Pistacia lentiscus</i>	X			X	X	X		X
Apiaceae								
<i>Daucus halophilus</i>					X			
<i>Eryngium maritimum</i>					X			
Apocynaceae								
<i>Nerium oleander</i>		X				X		
<i>Vinca difformis</i>	X	X			X	X		
Aristolochiaceae								
<i>Aristolochia paucinervis</i>		X						
<i>Aristolochia baetica</i>				x		X		
Asteraceae								
<i>Arctotheca calendula</i>					X			
<i>Bellis annua</i>			X					
<i>Bellis syvestris</i>			X					
<i>Calendula arvensis</i>			X					
<i>Calendula suffruticosa</i>			X					
<i>Centaurea pullata</i>		X			X			
<i>Chrysanthemum coronarium</i>			X					
<i>Cotula coronopifolia</i>			X					
<i>Dittrichia viscosa</i>		x			X			
<i>Galactites tomentosa</i>	x							
<i>Reichardia gaditana</i>								
<i>Silybum marianum</i>			X					
<i>Sonchus oleraceus</i>			X					
Boraginaceae								
<i>Anchusa azurea</i>			X					
<i>Anchusa undulata</i>		x						
<i>Borago officinalis</i>		X						
<i>Echium plantagineum</i>	x	x	X					
Brassicaceae								
<i>Cakile maritima</i>					X			
<i>Malcolmia littorea</i>					X			
<i>Sinapis arvensis</i>		X	X					
<i>Cleome violacea</i>		X						
Cactaceae								
<i>Opuntia ficus-indica</i>	X							
Caprifoliaceae								
<i>Lonicera implexa</i>		X		X		X		
<i>Viburnum tinus</i>		X						
Caryophyllaceae								
<i>Paronychia argentea</i>		X						
<i>Silene colorata</i>			X	X	X			
<i>Silene latifolia</i>		X					X	
<i>Silene nutans</i>					X			
<i>Silene galica</i>					X			
<i>Silene cretica</i>					X			
<i>Silene littorea</i>					X			

Day	1	2	3	4	5	6	7	8
<i>Spergularia rubra</i>					X			
<i>Spergularia marina</i>		X						
<i>Spergularia media</i>		X						
<i>Polycarpon tetraphyllum</i>					X			
<i>Illecebrum verticillatum</i>		X						
<i>Herniaria maritima</i>					X			
Chenopodiaceae								
<i>Beta vulgaris</i>	X							
<i>Halimus halimus</i>	X							
Cistaceae								
<i>Cistus albidus</i>		X		X		X		
<i>Cistus crispus</i>		X				X		
<i>Cistus populifolius</i>		X				X		
<i>Cistus ladanifer</i>	X	X	X		X			
<i>Cistus palhinhae</i>					X			
<i>Cistus monspeliensis</i>	X					X		
<i>Cistus salvifolius</i>	X	x			X	X		
<i>Halimium halimifolium</i>					X			
<i>Tuberaria guttata</i>					X			
Convolvulaceae								
<i>Convolvulus althaeoides</i>					X			
Crassulaceae								
<i>Sedum sediforme</i>					X	X		
<i>Umbilicus rupestris</i>			X					
Dipsacaceae								
<i>Scabiosa crenata</i>		x						
Ericaceae								
<i>Arbutus unedo</i>	X	x				X		
<i>Calluna vulgaris</i>					X			
<i>Erica arborea</i>		x			X			
<i>Erica umbellata</i>		x						
Euphorbiaceae								
<i>Euphorbia helioscopia</i>		X						
<i>Euphorbia peplus</i>		X						
<i>Euphorbia exigua</i>					X			
<i>Mercurialis annua</i>		X						
Fabaceae								
<i>Anthyllis tetraphylla</i>			X	X				
<i>Anthyllis vulneraria</i>		X						
<i>Ceratonis siliqua</i>		X						
<i>Cercis siliquastrum</i>	X							
<i>Coronilla juncea</i>				X				
<i>Astragalus stella</i>			X					
<i>Vicia hirsuta</i>			X					
<i>Vicia sativa</i>			X					
<i>Vicia lutea</i>	X							
<i>Vicia villosa</i>			X					
<i>Lotus ornithopodioides</i>					X			
<i>Lathyrus clymenum</i>		X						
<i>Lathyrus cicera</i>		X						
<i>Lathyrus ochrus</i>		X						
<i>Lupinus angustifolius</i>		X						
<i>Lupinus luteus</i>		X						
<i>Lupinus micranthus</i>	X							
<i>Retama monosperma</i>				X				
<i>Medicago minima</i>		X						
<i>Medicago orbicularis</i>		X						
<i>Medicago polymorpha</i>		X						
<i>Medicago marina</i>					X			

Day	1	2	3	4	5	6	7	8
<i>Medicago littoralis</i>					X			
<i>Onobrychis humilis</i>		X						
<i>Ononis natrix</i>						X		
<i>Psoralea bituminosa</i>					X			
<i>Genista hirsuta</i>	x			X	X	X		
<i>Ulex parviflorus</i>		X						
<i>Scorpiurus muricatus</i>			X					
<i>Spartium junceum</i>			X					
<i>Stauracanthus genistoides</i>					X			
<i>Trifolium resupinatum</i>				X				
<i>Trifolium stellatum</i>				X				
Saxifragaceae								
<i>Saxifraga granulata</i>							X	
Cynomoriaceae								
<i>Cynomorium coccineum</i>	X							
Fagaceae								
<i>Quercus rotundifolia</i>		X	X			X		
<i>Quercus coccifera</i>		X			X	X		
<i>Quercus suber</i>	x	X			X			
<i>Quercus faginea</i>							X	
Frankeniaceae								
<i>Frankenia laevis</i>	X							
Gentianaceae								
<i>Centaurium erythraea</i>				X	X	X		
Geraniaceae								
<i>Erodium cicutarium</i>	X							
<i>Erodium aethiopicum</i>		X						
<i>Erodium ciconium</i>			X					
<i>Erodium malacoides</i>		X						
<i>Erodium moschatum</i>		X						
<i>Geranium dissectum</i>		X						
<i>Geranium molle</i>		X						
<i>Geranium purpureum</i>		X						
<i>Geranium rotundifolium</i>		X						
<i>Geranium lucidum</i>					X			
Lamiaceae								
<i>Lavandula stoechas</i>		X	X		X			
<i>Lavandula viridis</i>		X						
<i>Marrubium vulgare</i>		X						
<i>Phlomis purpurea</i>		X				X		
<i>Rosmarinus officinalis</i>			X		X	X		
<i>Salvia verbenaca</i>		X	X			X		
<i>Thymus camphoratus</i>					X			
<i>Thymus capitatus</i>			X	X				
Linaceae								
<i>Linum bienne</i>		X			X			
<i>Linum maritimum</i>					X			
<i>Linum strictum</i>					X			
Malvaceae								
<i>Malva parviflora</i>								
<i>Malva sylvestris</i>		X						
<i>Malva creticae</i>	X							
Cytinaceae								
<i>Cytinus hypocistis</i>					X			
<i>Cytinus ruber</i>						X		
Moraceae								
<i>Ficus carica</i>		X		X		X		
Myrtaceae								

Day	1	2	3	4	5	6	7	8
<i>Myrtus communis</i>					X			
Oleaceae								
<i>Olea europaea</i>		x	X		X			
Orobanchaceae								
<i>Cistanche phelypaea</i>	X							X
<i>Orobanche ramosa</i>							X	
<i>Orobanche foetida</i>				X				
Oxalidaceae								
<i>Oxalis pes-caprae</i>	x	X	X		X			
Paeoniaceae								
<i>Paeonia broteri</i>		X						
Papaveraceae								
<i>Fumaria capreolata</i>		X						
<i>Fumaria officinalis</i>		X						
<i>Fumaria muralis</i>		X						
<i>Papaver rhoeas</i>		X	X					
Plantaginaceae								
<i>Plantago coronopus</i>			X					
Plumbaginaceae								
<i>Armeria pungens</i>					X			
<i>Limoniastrum monopetalum</i>	x							X
Polygonaceae								
<i>Rumex bucephalophorus</i>		X	X	X				
Primulaceae								
<i>Anagallis arvensis</i>		X						
<i>Anagallis monelli</i>		X						
Ranunculaceae								
<i>Anemone palmata</i>						X		
<i>Ranunculus ficaria</i>		X						
<i>Ranunculus macrophyllus</i>			X					
Resedaceae								
<i>Reseda media</i>	x	x	X					
Rosaceae								
<i>Pyrus amygdaliformis</i>							X	
<i>Sanguisorba minor</i>		x						
Rubiaceae								
<i>Rubia peregrina</i>				X	X			
<i>Sherardia arvensis</i>		X						
<i>Valantia hispida</i>		X						
Santalaceae								
<i>Osyris quadripartita</i>		X				X		
Scrophulariaceae								
<i>Antirrhinum majus</i>					X			
<i>Bellardia trixago</i>				X	X			
<i>Linaria viscosa</i>			X					
<i>Linaria amethystea</i>		X						
<i>Linaria bipunctata</i>					X			
<i>Linaria algarviana</i>				X				
<i>Misopates orontium</i>		X						
<i>Scrophularia sambucifolia</i>							X	
<i>Verbascum sinuatum</i>		X						
Tamaricaceae								
<i>Tamarix africana</i>	x							X
Thymelaeaceae								
<i>Daphne gnidium</i>		X				X	X	
Urticaceae								
<i>Parietaria judaica</i>		X						
<i>Urtica dioica</i>		X						

Day	1	2	3	4	5	6	7	8
Valerianaceae								
<i>Fedia cornucopiae</i>				X		X		
Agavaceae								
<i>Agave americana</i>	X					X		
Amaryllidaceae								
<i>Leucojum tricophyllum</i>				X				X
<i>Narcissus bulbocodium</i>			X		X			
<i>Narcissus jonquilla</i>			X					
<i>Narcissus papyraceus</i>						X		
<i>Pancratium maritimum</i>				X	X			
Dioscoreaceae								
<i>Tamis communis</i>		x						
Araceae								
<i>Arum italicum</i>		x						
<i>Arisarum vulgare</i>		x	X					
Iridaceae								
<i>Gladiolus italicus</i>		x		X				
<i>Galdiolus iliricus</i>					x			
<i>Gynandris sisyrnchium</i>	x	X	X	X	X	X		
<i>Isis pseudacorus</i>					X			
<i>Romulea bulbocodium</i>			X		X			
Liliaceae								
<i>Allium roseu</i>		X				X		
<i>Allium subvillosum</i>						X		X
<i>Asphodelus fistulosus</i>	x	X				X		X
<i>Asphodelus ramosus</i>	x	X	X	X				
<i>Asparagus albus</i>	x			X		X		
<i>Fritillaria lusitanica</i>					X			
<i>Hyacinthoides hispanica</i>		X				X	X	
<i>Dipcadi serotinus</i>			X		X		X	
<i>Muscari neglectum</i>				X				X
<i>Muscari comosum</i>	x	X		X				X
<i>Belvallia hackelii</i>						X		
<i>Ornithogalum umbellatum</i>			X			X	X	
<i>Ruscus aculeatus</i>						x	X	
<i>Scilla vincentina</i>					X			
<i>Scilla monophyllos</i>		X					X	
<i>Scilla peruviana</i>				X		X		
<i>Simethis mattiazzii</i>					X			
<i>Smilax aspera</i>		X		X		X	X	
<i>Tulipa sylvestris</i>						X	X	
<i>Urginea maritima</i>	x				X	X		
Orchidaceae								
<i>Anacamptis pyramidalis</i>				X		X		
<i>Cephalanthera longifolia</i>						X		
<i>Epipactis lusitanica</i>		X				X		
<i>Limodorum abortivum</i>						X		
<i>Neotinea maculata</i>						X		
<i>Aceras anthropophorum</i>						X		
<i>Gennaria diphylla</i>					X			
<i>Ophrys bombyliflora</i>				X		X		
<i>Ophrys speculum</i>				X		X		X
<i>Ophrys vernixia</i>				X		X		
<i>Ophrys picta</i>				X		X		
<i>Ophrys tenthredinifera</i>				X				
<i>Ophrys fusca</i>				X		X		
<i>Ophrys dyris</i>				X		X		
<i>Ophrys sícula/quarteirae</i>						X		
<i>Ophrys lutea</i>				X		X		

Day	1	2	3	4	5	6	7	8
<i>Hybrid O. speculum X O. lutea</i>						X		
<i>Orchis olbiensis</i>						X		
<i>Orchis morio</i>	X	X			X		X	
<i>Orchis papilionácea</i>			X					
<i>Orchis italica</i>				X		X		
<i>Serapias língua</i>					X			
<i>Serapias cordigera</i>					X			
<i>Serapias parviflora</i>				X	X			
Poaceae								
<i>Arundo donax</i>		X						
<i>Phragmites australis</i>		X						
Palmae								
<i>Chamaerops humilis</i>						X		



Heart-flowered Orchid *Serapias cordigera*. Photo DLeitão.

