

# Honeyguide

36 Thunder Lane, Thorpe St Andrew, Norwich NR7 0PX Telephone: 01603 300552 www.honeyguide.co.uk E-mail: chris@honeyguide.co.uk



## Valencia 8 – 15 March 2018

Graham Harris Mervin Nethercoat Sue and Peter Burge Ann Stearns Rosemary Macdonald and John Rumpus Malcolm and Helen Crowder Margaret Dixey Chris Ebden and David Wilkins Angela Wilkes Robert Carr

#### Leaders Pau Lucio and Chris Durdin. Report and lists by Chris Durdin.

Photos by Chris Durdin unless noted otherwise. Other photos by group members noted by initials, all taken during the holiday.

Cover, top: glossy ibises and egrets in the paddy fields (RC). Bottom: Spanish festoon (PB); chiffchaff (RC). Below: the group.



We stayed at Hotel Font Salada <u>www.fontsalada.com</u>; pictured below, with brimstone butterfly on paperwhite narcissus.



This holiday, as for every Honeyguide holiday, also puts something into conservation in our host country by way of a contribution to the wildlife that we enjoyed. The conservation contribution of £40 per person was supplemented by Gift Aid and we were able to give £690 ( $\in$ 760) to the Grupo de Anillamiento Pit-Roig (pitroig is the robin in the local language) which runs bird ringing stations in Valencia. We met the group at Pego Marsh – see account on page 9. As at March 2018, the total for all conservation contributions through Honeyguide since 1991 was £119,711.

Names of places in this report are generally in Castilian Spanish: there are also local spellings such as Calpe = Calp, Alicante = Alacant.

#### DAILY DIARY

#### Thursday 8 March - to Valencia, paddy fields and coastal dunes

The water fountain where you could join the queue to refill a water bottle after security and free copies of the *i* newspaper were small environmental positives among Gatwick's rampant commercialism, but then early morning airports are a necessary evil and just a stage of travel. The flight was a little delayed though nothing to write home about and it wasn't long before we were at baggage reclaim in Valencia Airport. There we met Chris E who had flown from Luton; Chris directed us to Pau who had started the Europcar paperwork. I joined the vehicle queue and we then took the short walk to the car park's first floor to collect and load minibuses.

We found our way out of the car park and through the urban edge of Valencia and were fairly quickly driving into the paddy fields at Catorroja. Briefly it seemed unpromising: just clusters of house sparrows and spotless starlings. Then we hit the purple patch, as rich a place for wetland birds as you could see almost anywhere. It was the hundreds of glossy ibises that first made you gasp, perhaps 1000 or so all told but near impossible to count. Alongside these were also hundreds of egrets, with little egrets in by far the biggest numbers but plenty of cattle egrets, often mixed in, and many great egrets beyond to complete the set. A black-winged stilt and three black-tailed godwits were side shows for those looking in the right direction. A marsh harrier occasionally caused a disturbance, though not for the large numbers of greater flamingos on the next lagoon. Most of the hunting hirundines were crag martins, with a fair few swallows and house martins.

Field marigolds provided splashes of gold and Bermuda buttercups bright yellow. Patches of white crucifer were often white wall rocket but also watercress within the water, alongside luxuriant celery-leaved buttercups.



Bermuda buttercups by the paddy fields; paella on arrival day provided a taste of Spain.

Lunch was calling, two huge paellas – one vegetarian, one not – at Restaurant Mateu, and we could see why this is one of Pau's favourite places to eat.

Pau's wife Virginia met us at the sand dune nature reserve of El Saler, to keep an eye on the still loaded minibuses. Typical Mediterranean shrubs included lentisc and false olive but it was a small group of sombre bee orchids that caused the most botanical excitement. On the open water were both great crested and black-necked grebes, with a count of 16 of the latter. As at the paddy fields there were good views of Audouin's gulls and a couple of shelducks and a flypast of sand martins.



Watching night herons: night heron in a pine tree; sombre bee orchid Ophrys fusca.

Our final, brief stop was to view roosting night herons somewhat incongruously in pines by houses. Numbers are much reduced, Pau said, but with the telescope's help we had close-up views of one of the adults within sight of our viewpoint. A pale phase booted eagle drifted overhead and there was a flypast of sand martins. Then it was time to head off south down the *peaje* in the late afternoon sunshine, turning at the sign for Oliva and Pego, through Oliva town and then a right turn off the road through orange groves and to Font Salada Hotel.

The salad starter for dinner included what we assume were locally grown oranges, part of an excellent meal with plenty of wine accompanied by a selection of 1960s music that sparked various conversations.

#### Friday 9 March – micro-reserves for flora

It was a warm and bright morning at Font Salada. The local hoopoe showed for some, a Sardinian warbler chattered in the orange trees and serins trilled around the area for anyone who was out and about. We had a relaxed 8:30 breakfast: I requested lemon with my tea and Sophia on duty nipped out the back and picked one to cut some slices. We were away at about 9:45.

It took a while to get through Oliva and 45 minutes or so away we made our first stop by a closed natural history interpretation centre – which later had a black redstart on the roof – primarily to look for orchids. We quickly found several sombre orchids, sawfly orchids and the very local *Ophrys lucentina*<sup>1</sup> with a yellow edge to its lip. Remarkably the only mirror orchid was not yet in flower, surprising as it had been out 10 days earlier on Honeyguide's visit two years ago, an effect of the cold weather that had slowed spring here as well as bringing heavy snow at home. But warm sunshine brought out butterflies, especially brimstones, speckled woods and holly blues. Two other local specialities were a thyme *Thymus piperella*, with a strong scent and spicy taste, and a rockrose *Helianthemum marifolium*, though neither were in flower. We walked for a while through the open wood of Aleppo and maritime pine, past a lime kiln (chalk oven would be the direct translation of the Spanish on the sign) and lots of wild boar rootings. Crested tit, firecrest and short-toed treecreeper were all heard but not seen well. Mason bees by little piles of earth and disappearing into holes caused especial interest.

A short-toed eagle appeared over a distant crag at coffee break – the weather was good enough to have that outside the café. For lunch we moved to the nearby old snow well at Barx and had our picnics on the tables in a nice mix of sun and shade, accompanied by displaying serins. The deep snow well reflected colder weather here centuries ago when snow was collected to make ice. Lizards on a wall were a puzzle, ID-wise, but not so the paper wasps or the strongly-scented paperwhite narcissi in the adjacent scrub, the latter attracting a brimstone as well as us.

The final stop was another botanical micro-reserve, this one called Pla de Mora set up for one of Europe's scarcest plants, the pink *Silene diclinis*. Pau was concerned that forestry and fire prevention work was overzealous with only basal rosettes of the Silene to be found at first, but Ann found two flowering specimens in the open scrub on the other side of the track. Here also was another attractive white daffodil, *Narcissus dubius*. Other notable finds were a crested nymph of the mantid *Empusa pennata* and the brightest green hairstreak butterfly you could imagine. The hairstreak was netted and, when released, perched on Mervin's finger with both butterfly and its perch showing huge patience while photographs were taken. Mallow skipper and wood white were other 'new' butterflies.



Conehead mantis *Empusa pennata* on *Erica multiflora*; yellow-edged *Ophrys lucentina*; an obliging green hairstreak poses for photos.

<sup>&</sup>lt;sup>1</sup> Ophrys lucentina (this is the name given in the orchid 'bible' by Delforge, which notes that the name is from Alicante, ancient Lucentum of the Romans) is also known as *Ophrys dianica*. It's one of a group of Ophrys orchids midway in appearance between sombre bee orchids *Ophrys fusca* and yellow bee orchid *Ophrys lutea*.

Lucky observers saw a hawfinch back at the hotel shortly after we returned. It was around every day after that, showing to Graham and other early risers in the same two trees.

We caught up with two days of wildlife checklists before dinner, the serving of which was helped by having chosen starters and main course when we'd returned to the hotel. A pause to choose from the evening's dinner menu became a daily routine.

#### Saturday 10 March – El Fondo Natural Park and in search of Bonelli's eagle

Breakfast was at 7:45 today to make an early departure at 8:30 because of the long drive south and early closing on the first part of the El Fondo nature reserve. There was a friendly greeting for Pau from the man on the Natural Park's north gate, and the briefest of pauses while the gate was re-opened for the second minibus. Surprisingly there were one or two mosquitoes at the first stopping point, but no more all day. A penduline tit called but all the small birds that could be seen in the reeds and tamarisk were chiffchaffs, some of which were singing. From the platform, reached via a short walkway, we scanned the distant water body The distant ducks were of no great note but not so birds of prey: a marsh harrier, then bit by bit several booted eagles appeared and came overhead, including a couple of dark phase individuals. Better still was the greater spotted eagle<sup>2</sup>, one of the handful that winter in Spain and probably not long before it was due to depart for Estonia or thereabouts. It flew lazily along the edge of the reeds at some distance from us, settling on a bush where it was mobbed by a harrier from time to time. A little later it flew again and dropped out of sight. A few glossy ibises flew through as we returned to the minibuses, where a Cetti's warbler shouted out of sight in their usual way.

Moving farther into the reserve, the next lagoon had a nice group of white-headed ducks, the pale blue bills on the males bright in the warm sunshine. A moustached warbler chattered in the reeds: quite a tricky song to separate from similar species, like a sedge warbler but less frenetic, also recalling reed warbler in pace but less repetitive. Eventually it came into view and the strong supercilium and capped appearance were clear through telescopes. We re-found the tiny blue butterfly that had puzzled us on the approach to the elevated platform: by now Sue had clinched an ID of African grass blue.

We drove out of the gated part of the reserve and to the car park by the visitor centre, a chance to use the loos and to look over the adjacent lagoons. By the water body near to the car park there were two Spanish yellow wagtails and a little ringed plover. On the lagoon beyond the screen by the picnic area there were at least three red-knobbed (crested) coots, one with a white collar fitted initially on these introduced birds, but the rest were natural looking. Red-crested pochards were at their closest here.



Red-knobbed coot and black-necked grebe (RC).

We walked to more viewpoints across various lagoons. On the first was a single close black-necked grebe with the many little grebes. Dragonflies didn't come close enough for identification: red-veined darter and blue emperor were best guesses. The next lagoon had three marbled ducks and more red-crested pochards. By the island on the far lagoon a group of avocets had gathered alongside a few black-winged stilts. On the island were many shelducks, several shovelers and a male garganey. We walked back to the visitor centre's picnic tables for lunch.

We called into Bar Harry in San Felipe Neri, Spanish-speaking Angela in charge of the coffee kitty as always, before heading inland to a dry, Wild West style landscape dominated by a backdrop of sandy cliffs. Our target was Bonelli's eagle, and it wasn't long before one dropped into a long fissure below the skyline.

<sup>&</sup>lt;sup>2</sup> Bird books traditionally called this species spotted eagle, but the name greater spotted eagle is increasingly used for *Aquila clanga* to avoid confusion with lesser spotted eagle or birds that could be either species.

The eagle sat there for a while, long enough for telescopes to be set on it, then soared around the cliff top and high into the blue sky and cloud. Those who had moved ahead then saw the eagle catch a partridge and it was up there feeding on it for a while. Down below blue rock thrush and black wheatear were located on rocks in the middle distance.



*Cistanche phelypaea* with our local leader, Pau; a distant Bonelli's eagle (RC); devil's backbone, mother of thousands, alligator plant or Mexican hat plant is a succulent plant native to Madagascar.

In the meantime a green-striped white was a new butterfly. The dry habitat wasn't great for plants though the shrubby pea *Anthyllis cytisoides* was new. Patches of a mauve, honesty-like crucifer had caught our eye as we drove, and a careful look revealed these to be *Moricandia arvensis*. A red succulent, plainly a garden escape, caused some discussion: later research gave the name of *Bryophyllum daigremontianum* (*=Kalanchoe daigremontiana*) and a selection of English names.

Rosemary had earlier found a strange shrub with hanging yellow flowers and rather succulent leaves: *Withania frutescens – oroval* in Spanish – was the later ID after internet research for this bushy member of the Solonaceae. A large spurge by this was a puzzle: whorled spurge *Euphorbia biumbellata* was another delayed ID. Finally, as we left the area, we paused to photograph the chunky yellow spikes of Cistanche, a distinctive member of the broomrape family.

The long drive home passed uneventfully, save for lightning close to home and some rain as we arrived at Font Salada. It came to nothing. A large wedding party was nearing the end of its celebrations at the hotel so we had dinner in the meeting room where we did our wildlife checklists.

#### Sunday 11 March – Old orchard, Cabo de San Antonio and Calpe

Another relatively local day (= later breakfast), our first location an abandoned almond orchard known to be a good place to find orchids. And so it proved: many giant and woodcock orchids and a few mirror orchids.



*Ophrys* x pielteri (sawfly x woodcock orchid hybrid); *Ophrys* x catroviejoi (mirror x woodcock orchid); and a more straightforward giant orchid.

However the especially notable orchids were hybrids: a mirror x woodcock orchid and a small patch of sawfly x woodcock orchids. Shrubby violet *Viola arborescens* was another nice find on the dry roadside bank: woody at the base but far from shrub-like despite the name. Adjacent to this was another puzzle: rock milkwort *Polygala rupestris* was the later conclusion.

We had coffee by the swimming pool of a restaurant on the way to a coastal viewpoint with a lighthouse at Cabo de San Antonio. It was agreeably busy here this very warm Sunday lunchtime, without the expected coastal breeze, and was ideal for a leisurely picnic among the dwarf fan palms and lentisc scrub. A Mediterranean buckthorn was buzzing with bees and other new plants included paronychia, white horehound and the prostrate small-flowered bugloss. A peregrine falcon flew overhead and gannets were out at sea.

By the time we reached the next coastal stop, the large Gibraltar-like rock of Penyal D'Ifac Natural Park next to the town of Calpe, the sun had disappeared and there was a brisk breeze. On a rock in the sea by the base of the cliffs were five Mediterranean shags and on the next rock a couple of cormorants for comparison. Yellow-legged gulls here were plainly used to people and posed beautifully. There were many interesting plants to look at: white mignonette, giant fennel, toothed lavender and *Euphorbia serrata* were a few of these.



Calpe: from the micro-reserve, looking towards the lagoon, town and Penyal D'Ifac.

Bizarrely for a Sunday afternoon the loos and visitor centre were shut and that and the wind encouraged a return to the minibuses to find a well-located café by a roundabout in Calpe. Perfect timing as we were under cover listening to more 1960s music when there was a light shower of rain. That came to nothing and soon we were in another micro-reserve for flora within Calpe town. Weasel's snout was common and Dave was in fine form finding Barbary nut iris and a nice *Centaurea pullata*. A short wooden walkway took us to the lagoon, once a Roman saltworks, now incongruously overlooked by various high-rise buildings beyond. There were good views of a large number of flamingos, black-winged stilts flew close by plus a few shelducks and mallards. By the walkway – so free from trampling – was a lovely group of mirror orchids, beautifully catching the late afternoon sun, a couple of giant orchids and a single *Ophrys lucentina*.

Then it was back to base, filling up with diesel on route, and pausing for a hoopoe on the road into Font Salada.

#### Monday 12 March – orchid hunting above Pego, and Pego Marshes

Strong winds overnight persisted into the morning causing the Pit Roig ringing group to cancel the ringing at Pego Marsh we'd planned to visit. So that day's itinerary was swapped with Wednesday's plan and the new, additional day – compared with the previous Honeyguide group here – started in the hills beyond Pego and Vall d'Ebo. We stopped on a hillside that looked like any other, but Pau knew it was a good site for *Orchis olbiensis*, the Iberian version of early purple orchid. There were many tucked in under the scrub and more in bud, with a range of colours from deep pink to almost pure white.

The main part of the morning started with a search on some old cultivations for more orchids, mostly sombre bee orchids with a few examples of *Ophrys lucentina*. We walked from here, pottering along the quiet road and in and out of the adjacent land, all a long abandoned farming area, with some terraces for almonds and olives and some old fencing that once would have been for livestock. Helen found a large rock with shell fossils and attached to that was the egg case of a mantid that matches photos of the egg case made by *Empusa pennata*, which Rob found nearby. Purple Jerusalem sage was in flower and the spurges were particularly impressive, with lots of large Mediterranean spurge, cypress spurge and caper spurge. Puddles in the track attracted large numbers of dark honey bees to drink.

It was too windy for birds, apart from a brief view of corn bunting for some, the occasional chatter of Sardinian warblers and the chuck-chuck of red-legged partridges. Surprisingly there was enough sunshine for a few butterflies: a wall brown in a sheltered spot and some sightings of swallowtails. But the best was when we'd turned up a wide track where Pau at the front netted a pristine Spanish festoon. There was a second Spanish festoon that settled in some vegetation out of the wind: there was no need to catch this one and it allowed everyone to approach it for photographs. A clouded yellow as we retraced our steps was another nice additional to the collection of sightings.



A very pale Orchis olbiensis, which is closely related to early purple orchid; and *Ophrys dyris.* 

After a coffee stop in a friendly village bar we drove a short distance to find somewhere to have picnics, and sitting in the lea of a hill we were able to avoid the worst of the wind. Over the ridge in front of us a large bird of prey appeared, which turned to reveal the distinctive patterns of an immature golden eagle.

Another stop, another orchid search, in what looked to be an unpromising patch of rosemary scrub. Most of the many orchids here were in bud or just rosettes

of leaves but we did find two good examples of *Ophrys dyris*<sup>3</sup> plus a broomrape that specialises, as a parasite, on rosemary. The orchid search had been helped by Peter searching out a photo of this good-looking species and showing it to us on his phone.

There was a change of habitat for the late afternoon as we dropped down the hill to Pego Marsh, calling where a boardwalk went into the reed and open water mix to a raised and roofed viewing point. There was a distinct lack of wetland birds - just one moorhen and guartering marsh harriers, including one very smart male - but there was plenty to see in the shape of aerial feeders. Immediately there were swifts, and as they flew low in the late afternoon sunshine we could take time to pick out the subtle features of pallid swift on the majority. Many of the hirundines were house martins though there were also a few swallows and sand martins plus one red-rumped swallow. High against the clouds were a couple of alpine swifts, then more appeared, dozens of them, and for a brief period some dropped low over us revealing their distinctive pattern without the need for binoculars.



Pallid swift (RC).

Close to the hotel, we made a short detour to font salada – salty font – after which the hotel is named. Several felt the warm water in this concreted, open air pond which apparently has therapeutic uses. There's no connection with the hotel's wonderful salads provided as starters for our evening meals. A hummingbird hawk-moth was feeding on some mauve lantana as we unpacked the minibuses.

#### Tuesday 13 March – East Albacete steppes and wetlands

The hawfinch was around pre-breakfast again, along with the usual blackcaps and chiffchaffs, and a redrumped swallow flew over before we climbed aboard the minibuses for a slightly early 9:20 departure.

It was a long drive out of Valencia and into to next door Castilla-La Mancha region to the steppes area east of Albacete, arriving at our first stop at 11:00. That stop was by some farm buildings which Pau knew to have rock sparrows. Helen and Sue saw one, but many of the rest of us didn't get onto it, partly as we were all putting on every layer we had to combat the cold wind (happily the brief shower of rain came to nothing) but also as a group of three great bustards was feeding on a field in the middle distance.

<sup>&</sup>lt;sup>3</sup> Dyris is the name given by Roman naturalist Pliny to the mountains of the Moroccan Atlas.

There was also our first of several lapwings today – *avefría* in Spanish, meaning cold bird – and another great bustard in the other direction. Eagle-eyed Helen was at it again, though perhaps goggle-eyed would be a better word as her find was a stone-curlew. It wasn't far away but being static and stone-coloured it took some time for everyone to see it well, helped by a good line-up of telescopes.

We then drove through some rather featureless and intensive arable, at the end of which we found a rock sparrow on a fence around an enclosed area.

As well as our usual pre-lunch coffee in a bar in Pétrola they also kindly let us eat picnics inside, which was very welcome even though the benches in the village were a lot more protected from the cool wind than the bleak steppes.

We drove around a succession of water bodies after lunch. By a damp patch several snipe took off and a water pipit walked along the track. The pipit was showing good signs of its pretty spring plumage, despite being a late wintering bird here, and it stayed in view for a long time allowing good views by all. Farther on a pile of stones in a large arable field had two little owls: viewing from the minibus isn't ideal but was the right thing to do as they slipped out of view as soon as I tried to get a telescope set up to view them. By another lake there were excellent close views of both female and male marsh harriers



Birds in the Albacete steppes: water pipit, little owl and greater flamingo (all RC).

The various lakes – some temporary, some permanent – were a disappointment: close to birdless save for the occasional gull and stilt. Pau suggested that the dry autumn meant the usual wintering ducks went to the coast and didn't come once winter rains had come. Added to this the late winter meant a complete lack of botanical interest. Only the final lake offered good birdwatching: many delightfully pink greater flamingos and a good selection of ducks. Of these, shovelers were the most numerous but there were also red-crested pochards, pochards, gadwalls, shelducks and mallards, plus three black-winged stilts that took to the air as yet another marsh harrier quartered the marsh. By now it was four o'clock and the time and chilly weather prompted us to set off home. Back at base at around six o'clock it was decidedly balmy by contrast and there was time to potter around the hotel's grounds and orchard.

#### Wednesday 14 March – Pego Marshes and Gandía Port



Malcolm releases a chiffchaff

Today was our rearranged trip to Pego Marshes, close to the hotel. On this fine morning there had been no problem for Juan and another colleague from Pau's bird ringing group, Grupo de Anillamiento Pit-Roig, to put up a mist-net on a path through the reeds. The caught birds had already been ringed, weighed and measured and were ready for us to see and release.

A moustached warbler was the first, a key bird here as not only are they resident but some winter here from the south of France, making Pego Marshes doubly important for this scarce species.

Chiffchaff (which seemed very at ease in Rob's hand), a winter plumage reed bunting and Cetti's warbler were in other bird bags, but the biggest 'oooh' was for a male white-spotted bluethroat.

Details of the holiday's conservation donation supporting the ringing group are on page 2.



Cetti's warbler, showing rounded tail and short wings on a species that doesn't migrate; bluethroat (RC); moustached warbler.

The paddy fields we then drove through were dry, though still with a scattering of little and cattle egrets, as we made our way to the stopping place for our morning's walk, the first minibus pausing for a kingfisher by a ditch. In the parking area we could see a group of students and Pau was soon in conversation with their professor who he knew, and we learnt that they were eco-tourism students from all over Europe and beyond. It was an obvious chance to brief them about Honeyguide before we followed the course of the River Salinar, with reeds to our right and a raised limestone area to our left.

The first find was not good news: several non-native red-eared terrapins. Booted eagles drifted over, so did the inevitable marsh harriers and a single white stork. Moroccan orange-tip was the best of the butterflies. A freshly-emerged blue-tailed damselfly was a nice find. Grey-leaved cistus was in flower in this sheltered location – on previous days we had just seen the distinctive leaves. Cut-leaved lavender grew among the rocks, and easier to recognise wild flowers included blue houndstongue, butcher's broom and water figwort. It was nice to see parties of junior school children out enjoying the equable weather and natural surroundings, chattering away with enthusiasm.

We had picnics and coffee back at base, outside Hotel Font Salada, before leaving at 2:30 for a journey via Oliva and Piles to coastal Gandía where we parked behind the fishermen's café on the quay. A Sandwich tern called, others came into view and it became apparent that there was quite a group of them on the factory roof on the other side of the harbour. With the terns were Mediterranean gulls with fine black hoods plus black-headed gulls for comparison. A level down on the quayside there was a large group of Audouin's gulls: many gather here this time of year before going to the Ebro Delta to breed.

We walked to the end the jetty to try our hand at seawatching in much warmer conditions than the hobby's aficionados customarily experience in the UK. Gannets drifted to and fro and a party of five common scoters on the sea was a surprise. Off to the right was a small group of Mediterranean gulls. In the far distance a fishing boat was slowly making its way in, followed by a group of gulls and gannets. Once the boat was within range an Arctic skua was picked out, then a Balearic shearwater, though neither followed the boat as far as the harbour. The gulls – yellow-legged, Audouin's, Mediterranean and black-headed – hung around until the boat had disposed of its by-catch, after which it was also our cue to walk back.



Audouin's gulls, Sandwich terns and cormorants on the quayside at Gandía.

We had time in hand in the warm late afternoon sunshine and we gave into the temptation of a beer, ice cream or cup of tea outside the bar on the quayside. A nice Englishman by the name of Terry looked at the various gulls and terns through the 'scope and kindly took a photo of the Honeyguide group.

### Thursday 15 March – return

We had an early breakfast at 7:30 to allow a departure at 8:15. It was a smooth journey to Valencia where we refuelled the minibuses before returning them. We saw Chris E's flight to Luton depart; the Gatwick flight was slightly delayed but the time was more than made up with the help of a following wind.

#### THE BEST BITS

Towards the end of our final evening meal at Hotel Font Salada we shared our holiday highlights, some of the best memories of the holiday.

Dave	Bonelli's eagle; bluethroat.
Rob	Photographing a pallid swift; bonding with the chiffchaff.
Margaret	Flamingos, the colour and they way they move; when Pau caught the Moroccan orange-tip.
Malcolm	First day spectacular; Bonelli's eagle, quality of the freshly-emerged butterflies e.g. Spanish festoon, Moroccan orange-tip, green hairstreak.
Sue	Field of glossy ibises, especially in flight; green hairstreak, so shiny; cistanche.
Pau	Bonelli's eagle carrying prey; butterflies; the walk that ended with the Spanish festoon.
Ann	Holding the moustached warbler; blue rock thrush.
Helen	Bonelli's eagle; seeing <i>Ophrys dyris</i> for real after looking at pictures on Peter's phone; green hairstreak.
Peter	Green hairstreak; birds in the hand.
John	Ibises and egrets on day 1; birds in the hand.
Mervin	Spanish festoon and Moroccan orange-tip; moustached warbler; the company.
Rosemary	Spanish festoon; sheer number of orchids.
Chris E	Paddyfields with ibises and egrets; white-headed duck/marbled teal/red-crested pochard at El Fondo.
Graham	Sheer number of ibises; Spanish 'spittoon'.
Angela	First day with "big birds I could see"; sight of Pau catching the Spanish festoon.
Chris D	1000 glossy ibises; hybrid orchids; seeing Ann being thrilled as she released the moustached warbler.

Sue in her vote of thanks reminded us how good the food was at Hotel Font Salada.



A nice group of mayweeds on a terraced hillside (SB); birding and botanising in the 'Wild West' (HC).

### WILDLIFE LISTS

### **BIRDS NP = Natural Park**

Little grebe	Heard or seen in three wetlands
Great crested grebe	Seen in two wetlands
Black-necked grebe	16 on the first day; very close at El Fondo NP
Balearic shearwater	A distant bird at sea at Gandía
Gannet	Off San Antonio Cape and many at sea at Gandía
Cormorant	At all wetlands
Shag	5 on a rock off Penyal D'Ifac NP at Calpe
Cattle egret	Large numbers on the paddy fields a several on other wetlands
Little egret	Often large numbers in wetlands
Great white egret	c.40 in the paddyfields and one at Pego Marsh
Grey heron	Seen on four days at various wetlands
Night heron	A day-time roost on our arrival day
White stork	A single bird over Pego Marsh area
Glossy ibis	Impressive flocks including one of c.1000 at the paddy fields. Also a few
-	flew over El Fondo.
Greater flamingo	Seen on 4 days, often in large numbers, including well inland at Albacete
Shelduck	Seen on 4 days
Wigeon	Singles on two days
Gadwall	At Albacete
Teal	Small groups at El Fondo NP and Albacete
Garganey	A male at El Fondo NP
Mallard	Seen on 5 days
Shoveler	Large flocks at El Fondo NP and at seen at Albacete
Red-crested pochard	El Fondo NP and Albacete
Pochard	A few at El Fondo NP and Albacete
Tufted duck	At El Fondo NP
White-headed duck	Small groups at El Fondo NP
Short-toed eagle	1 on 9/3
Marsh harrier	Numerous at all main wetlands
Harrier sp	Unidentified 'ringtail' harriers over the hotel and Pego Marsh
Buzzard	Recorded on 4 days
Greater spotted eagle	1 at El Fondo NP
Golden eagle	An immature on 12/3
Bonelli's eagle	1 on day 3, distant but good views, including with prey
Booted eagle	Seen on 3 days, often good numbers, a mix of light and dark phase birds
Osprey Kestrel	1 over El Fondo NP
	Seen almost daily
Peregrine Bod logged pertridge	1 at San Antonio Cape
Red-legged partridge	Seen or heard on 4 days Heard at 2 wetlands
Water rail	
Maarhan	
Moorhen Burnle swamp hen	Seen on 6 days
Purple swamp-hen	Seen on 6 days Seen on two days
Purple swamp-hen Coot	Seen on 6 days Seen on two days Large numbers at freshwater wetlands
Purple swamp-hen	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP,
Purple swamp-hen Coot Red-knobbed coot	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo.
Purple swamp-hen Coot Red-knobbed coot Great bustard	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover Lapwing	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete Albacete
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover Lapwing Ruff	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete Albacete 2 at El Fondo NP
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover Lapwing Ruff Snipe	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete Albacete 2 at El Fondo NP El Fondo NP and at Albacete
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover Lapwing Ruff Snipe Black-tailed godwit	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete Albacete 2 at El Fondo NP El Fondo NP and at Albacete 3 on day 1 and 2 at El Fondo NP
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover Lapwing Ruff Snipe Black-tailed godwit Green sandpiper	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete Albacete 2 at El Fondo NP El Fondo NP and at Albacete 3 on day 1 and 2 at El Fondo NP 1 flew past at Pego Marsh
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover Lapwing Ruff Snipe Black-tailed godwit Green sandpiper Arctic skua	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete Albacete 2 at El Fondo NP El Fondo NP and at Albacete 3 on day 1 and 2 at El Fondo NP 1 flew past at Pego Marsh A pale phase skua chasing gulls behind a fishing boat at sea at Gandía
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover Lapwing Ruff Snipe Black-tailed godwit Green sandpiper Arctic skua Black-headed gull	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete Albacete 2 at El Fondo NP El Fondo NP and at Albacete 3 on day 1 and 2 at El Fondo NP 1 flew past at Pego Marsh A pale phase skua chasing gulls behind a fishing boat at sea at Gandía Common at most wetlands
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover Lapwing Ruff Snipe Black-tailed godwit Green sandpiper Arctic skua Black-headed gull Lesser black-backed	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete Albacete 2 at El Fondo NP El Fondo NP and at Albacete 3 on day 1 and 2 at El Fondo NP 1 flew past at Pego Marsh A pale phase skua chasing gulls behind a fishing boat at sea at Gandía
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover Lapwing Ruff Snipe Black-tailed godwit Green sandpiper Arctic skua Black-headed gull Lesser black-backed gull	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete Albacete 2 at El Fondo NP El Fondo NP and at Albacete 3 on day 1 and 2 at El Fondo NP 1 flew past at Pego Marsh A pale phase skua chasing gulls behind a fishing boat at sea at Gandía Common at most wetlands Recorded on 3 days
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover Lapwing Ruff Snipe Black-tailed godwit Green sandpiper Arctic skua Black-headed gull Lesser black-backed gull Yellow-legged gull	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete Albacete 2 at El Fondo NP El Fondo NP and at Albacete 3 on day 1 and 2 at El Fondo NP 1 flew past at Pego Marsh A pale phase skua chasing gulls behind a fishing boat at sea at Gandía Common at most wetlands Recorded on 3 days On territory at Penyal D'Ifac NP and numerous elsewhere
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover Lapwing Ruff Snipe Black-tailed godwit Green sandpiper Arctic skua Black-headed gull Lesser black-backed gull Yellow-legged gull Mediterranean gull	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete Albacete 2 at El Fondo NP El Fondo NP and at Albacete 3 on day 1 and 2 at El Fondo NP 1 flew past at Pego Marsh A pale phase skua chasing gulls behind a fishing boat at sea at Gandía Common at most wetlands Recorded on 3 days On territory at Penyal D'Ifac NP and numerous elsewhere Gandía harbour only
Purple swamp-hen Coot Red-knobbed coot Great bustard Avocet Black-winged stilt Little ringed plover Lapwing Ruff Snipe Black-tailed godwit Green sandpiper Arctic skua Black-headed gull Lesser black-backed gull Yellow-legged gull	Seen on 6 days Seen on two days Large numbers at freshwater wetlands Close birds, one with a neck collar, at the visitor centre at El Fondo NP, five all told including others elsewhere at El Fondo. 3 groups of 3 and a singleton at Albacete A nice group at El Fondo, 1 at Albacete On 4 days, especially El Fondo and Albacete El Fondo and Albacete Albacete 2 at El Fondo NP El Fondo NP and at Albacete 3 on day 1 and 2 at El Fondo NP 1 flew past at Pego Marsh A pale phase skua chasing gulls behind a fishing boat at sea at Gandía Common at most wetlands Recorded on 3 days On territory at Penyal D'Ifac NP and numerous elsewhere

Feral pigeon	Recorded on most days
Woodpigeon	Recorded on most days
Collared dove	Recorded daily
Tawny owl	Heard at Hotel Font Salada
Little owl	2 on a pile of stones at Albacete
Common swift	Unidentified swifts on the first 3 days; confirmed on the following 3 days
Pallid swift	Close views of c.20 on the first visit to Pego Marsh, 12/3
Alpine swift	On 4 days, including c.40 over Pego Marsh, 12/3
Kingfisher	From one minibus at Pego Marsh
Ноорое	Flew past minibuses on occasions; often heard and seen at the hotel
Calandra lark	Seen at Albacete
Crested lark	Recorded on 4 days
Crag martin	Lots of wintering birds over wetlands on 2 days
Sand martin	Over wetlands on 4 days
Barn swallow	Seen daily
Red-rumped swallow	Seen 3 days, including over the hotel
House martin	Seen on 5 days, often the commonest hirundine
Meadow pipit	Winter groups or individuals on 3 days
Water pipit	Seen well at Albacete
Yellow wagtail	Two of the Iberian race at El Fondo
Grey wagtail	Pego Marsh on 12/3
White wagtail	Seen every day
Robin	Seen on four days at the hotel
Bluethroat	1 male white-spotted form in the hand at Pego Marsh
Black redstart	Seen almost daily
Stonechat	Seen on 5 days
Northern wheatear	Seen at Albacete
Black wheatear	2 at Bonelli's eagle cliff
Blackbird	Daily at the hotel
Song thrush	Heard at the hotel on 3 days
Blue rock thrush	2 males at Bonelli's eagle cliff
Cetti's warbler	Heard or seen on 5 days at various wetlands
Fan-tailed warbler	Heard or seen on 4 days at various wetlands
Moustached warbler	Seen well at El Fondo; in the hand at Pego Marsh
Sardinian warbler	Seen or heard daily, especially at the hotel
Blackcap	Seen or heard daily, especially at the hotel
Chiffchaff	Seen or heard daily, especially at the hotel
Firecrest	Seen on day 2
Long-tailed tit	Seen on 2 days
Crested tit	Seen in pine woods on day 2, heard on day 5
Great tit	Daily, especially at the hotel
Penduline tit	Heard at El Fondo and at Pego Marsh
Short-toed	Seen and heard on day 2
treecreeper	
lberian grey shrike	2 distant birds at El Fondo NP, 1 on day 4
Magpie	Daily
Red-billed chough	2 on day 2, heard on day 3
Jackdaw	Recorded on day 3
Raven	Recorded on day 4
Carrion crow	Recorded on 3 days, fairly numerous at Albacete
Spotless starling	Daily
Common starling	Good views at the hotel, 13/3
House sparrow	Daily
Rock sparrow	Albacete
Chaffinch	Almost daily
Serin	Displaying daily at Hotel Font Salada, and elsewhere
Greenfinch	Seen on almost every day, especially at Hotel Font Salada
Goldfinch	Seen daily
Hawfinch	Daily sightings in the trees at the hotel
Linnet	At the Bonelli's eagle cliff and Albacete
Reed bunting	In the hand at Pego Marsh
Corn bunting	12/3 and at Albacete
2	

MAMMALS				
Wild boar Sus scrofa – rootings Rabbit Oryctolagus cuniculus				
AMPHIBIANS & REPTILES				
Iberian water frog Pelophylax perezi (heard what we presume were these)				
Large psammodromus Psammodromus algirus Iberian wall lizard Podarcis hispanica				
Moorish gecko Tarentola mauretanica Red-eared terrapin Trachemys scripta (feral)			mys scripta (feral)	
FISH				
Mosquito fish Gambusia sp (non-native) Flathead grey mullet Mugil cephalus			cephalus	
Largemouth bass Micropterus salmoides (non-native)				
BUTTERFLIES				
Mallow skipper	Small white	Cleopatra	Wall brown	
Swallowtail	Green-striped white	Wood white	Green hairstreak	
Scarce swallowtail	Moroccan orange-tip	Red admiral	African grass blue	
Spanish festoon	Brimstone	Peacock	Holly blue	
Large white	Clouded yellow	Southern speckled wood		





Mint leaf beetle Chrysolina herbacea and a pollen chafer, Oxythyrea funesta, both on apple mint.



Leatherbug *Plinachtus imitator* here on pine needles, though the foodplant is lentisc; larval case for conehead mantis *Empusa pennata*; green huntsman spider *Micrommata virescens*, female.

OTHER INVERTEBRATES			
Blue-tailed damselfly	Mint leaf beetle	Violet carpenter bee	
Ischnura elegans	Chrysolina herbacea	Xylocopa violacea	
Pond skater	Seven-spot ladybird	Mining bee	
probably <i>Aquarius najas</i>	Coccinella septempunctata	Halictus sp or Lasioglossum sp	
Conehead mantis	Leatherbug	Honey bees	
Empusa pennata	Plinachtus imitator	Apis spp	
Egyptian grasshopper/locust	Fire bug	Paper wasp	
Anacridium aegyptium	Pyrrhocoris apterus	Polistes dominula	
Saddle bushcricket	A red-and-black ground bug	Bee-fly sp	
Pycnogaster sp	Spilostethus pandurus	Bombyliidae	
Oil boatla an	Hummingbird hawk-moth	Green huntsman spider	
Oil beetle sp	Macroglossum stellatarum	Micrommata virescens	
Pollen chafer	Pine processionary moth	Louisiana crayfish	
Oxythyrea funesta	Thaumetopoea pityocampa	Procambarus clarkii remains	
		Sea urchin sp	

	PLANTS	
Numbers on the right refer to	Blamey & Grey-Wilson, Mediterranean Wild	d Flowers.
	ix of species widespread in Europe and loca	
	anted, marked P. NiF = not in flower.	
	ts e.g. shepherd's purse, groundsel, are not	usually noted;
planted tree	es are noted when of special interest.	
	Pinaceae	
Pinus halepensis	Aleppo pine	1
Pinus pinea P	Stone / umbrella pine	3
Pinus pinaster	Maritime pine	5
Pinus canariensis P	Canary pine	7
Araucaria araucana P	Norfolk Island pine	
	Cupressaceae	
Juniperus oxycedrus	Prickly juniper	15
Enhadra fragilia	Ephedraceae	20
Ephedra fragilis	Joint-pine	20
Quereus esseitere	Fagaceae	24
Quercus coccifera	Kermes oak	24
Quercus rotundifolia	Holm oak	26
	Moraceae	40
Ficus carica	Fig	42
	Urticaceaea	
Parietaria judaica	Pellitory-of-the-wall	50
Corrective edulie	Aizoaceae	115
Carpobrotus edulis	Hottentot fig Caryophyllaceae	115
Paranyahia capita	Paronychia	134
Paronychia capita		144
Spergularia media	Greater sand-spurrey	
Silene alba	White campion	158
Silene diclinis	(endemic to Spain)	
	Papaveraceae	
Papaver rhoeas	Common poppy	283
	Ranunculaceae	
Ranunculus sceleratus	Celery-leaved buttercup	251
	Fumariaceae	
Fumaria capreolata	White ramping-fumitory	303
Fumaria officinalis	Common fumitory	306
	Cruciferae	
Alyssum alyssoides	Small alison	
Coronopus didymus	Lesser swinecress	
Diplotaxis erucoides	White wall rocket	
Matthiola lunata	a stock	329
Lobularia maritima	Sweet alison	338
Cardaria draba	Hoary cress	353
Moricandia arvensis	Matazaza	354
Nasturtium officinale	Watercress Wild radish	369
Raphanus raphanistrum Sinapsis arvensis	Charlock	369 359
	Resedaceae	000
Reseda alba		375
	White mignonette	313
	Crassulaceae	206
Umbilicus rupestris NiF	Navelwort	396
Bryophyllum (=Kalanchoe)	Devil's backbone, mother of thousands,	Native to
daigremontianum	alligator plant, Mexican hat plant	Madagascar
	Rosaceae	44-
Crataegus monogyna	Hawthorn	420
Prunus dulcis	Almond	421
Sanguisorba minor NiF	Mediterranean salad burnet	410
Eriobotrya japonica P	Loquat	
	abaceae / Leguminosae	
Acacia dealbata P	'Mimosa' or Silver wattle	432
Anthyllis cytisoides	a shrub kidney-vetch	688
Cercis siliquastrum P	Judas tree	430
Cercis siliquastrum P Ceratonia siliqua Coronilla valentina P	Judas tree Carob	430 431

	Damient	070
Dorycnium hirsutum Lygos monosperma	Dorycnium Retama	676 480
Ononis natrix	Large yellow restharrow	556
Medicago polymorpha	Toothed medick	618
Psoralea bituminosa	Pitch trefoil	508
Scorpiurus muricatus	Scorpiurus, a scorpion vetch	684
Ulex parviflorus	Small flowered gorse	473
Vicia hybrida	Hairy yellow vetchling vetch	527
Vicia sativa	Common vetch	531
	Oxalidaceae	001
Oxalis pes-caprae	Bermuda buttercup	735
	Geraniaceae	
Geranium molle	Dovesfoot cranesbill	741
Geranium rotundifolium	Round-leaved cranesbill	743
Erodium malacoides	Mallow-leaved storksbill	752
Erodium cicutarum	Common storksbill	761
	Euphorbiaceae	
Euphorbia segetalis	(dunes)	797
Euphorbia helioscopia	Sun spurge	799
Euphorbia characias	Large Mediterranean spurge	799
Euphorbia lathyris	Caper spurge	805
Euphorbia biumbellata	Whorled spurge	810
Euphorbia serrata	Saw-leaved spurge	817
Euphorbia squamigera		
Mercurialis annua	Annual mercury	820
Mercurialis tomentosa		
Ricinus communis	Castor oil plant	824
	Meliaceae	
Melia azedarach P	Indian bead tree or Persian lilac	843
	Polygalaceae	
Polygala rupestris	Rock milkwort	845
Polygala x dalmaisiana P	Sweet pea shrub, planted at the hotel	
	Anacardiaceae	0.05
Pistacia lentiscus	Mastic tree or lentisc Rhamnaceae	865
Rhamnus alaternus		885
Rhamnus alaternus Rhamnus lycioides	Mediterrannean buckthorn	885 887
	Mediterrannean buckthorn	
Rhamnus lycioides	Mediterrannean buckthorn Malvaceae	887
Rhamnus lycioides	Mediterrannean buckthorn Malvaceae Cretan mallow	887
Rhamnus lycioides Lavateria cretica	Mediterrannean buckthorn Malvaceae Cretan mallow Violaceae	887 910
Rhamnus lycioides Lavateria cretica Viola alba	Mediterrannean buckthorn Malvaceae Cretan mallow Violaceae Mediterranean white violet (but not white)	887 910 925
Rhamnus lycioides Lavateria cretica Viola alba	Mediterrannean buckthorn         Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet	887 910 925
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens	Mediterrannean buckthorn Malvaceae Cretan mallow Violaceae Mediterranean white violet (but not white) Shrubby violet Thymelaeaceae	887 910 925 933
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens Daphne gnidium	Mediterrannean buckthorn Malvaceae Cretan mallow Violaceae Mediterranean white violet (but not white) Shrubby violet Thymelaeaceae	887 910 925 933 936
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens Daphne gnidium	Mediterrannean buckthorn Malvaceae Cretan mallow Violaceae Mediterranean white violet (but not white) Shrubby violet Thymelaeaceae Daphne	887 910 925 933 936
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens Daphne gnidium Thymelea hirsuta	Mediterrannean buckthorn Malvaceae Cretan mallow Violaceae Mediterranean white violet (but not white) Shrubby violet Thymelaeaceae Daphne	887 910 925 933 936 942
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens Daphne gnidium Thymelea hirsuta Cistus clusii	Mediterrannean buckthorn         Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Image: Cistaceae         Image: Cistaceae	887 910 925 933 936 942 869
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens Daphne gnidium Thymelea hirsuta Cistus clusii Cistus albidus	Mediterrannean buckthorn          Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus	887 910 925 933 936 942 942 869 961
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens Daphne gnidium Thymelea hirsuta Cistus clusii Cistus albidus Cistus salvifolius NiF	Mediterrannean buckthorn          Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus	887 910 925 933 936 942 942 869 961 965
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens Daphne gnidium Thymelea hirsuta Cistus clusii Cistus albidus Cistus salvifolius NiF Helianthemum marifolium NiF	Mediterrannean buckthorn          Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus	887 910 925 933 936 942 942 869 961 965
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens Daphne gnidium Thymelea hirsuta Cistus clusii Cistus albidus Cistus salvifolius NiF Helianthemum marifolium NiF	Mediterrannean buckthorn          Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus         Sage-leaved cistus         Sage-leaved cistus         Prickly pear	887 910 925 933 936 942 942 869 961 965
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens Daphne gnidium Thymelea hirsuta Cistus clusii Cistus albidus Cistus salvifolius NiF Helianthemum marifolium NiF Fumana sp	Mediterrannean buckthorn          Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus         Sage-leaved cistus         Sage-leaved cistus         Prickly pear         Araliaceae	887 910 925 933 936 942 869 961 965 1011
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens Daphne gnidium Thymelea hirsuta Cistus clusii Cistus albidus Cistus salvifolius NiF Helianthemum marifolium NiF Fumana sp	Mediterrannean buckthorn          Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus         Sage-leaved cistus         Sage-leaved cistus         Prickly pear         Araliaceae         Ivy	887 910 925 933 936 942 869 961 965 1011
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens Daphne gnidium Thymelea hirsuta Cistus clusii Cistus albidus Cistus salvifolius NiF Helianthemum marifolium NiF Fumana sp Opuntia maxima = ficus-indica	Mediterrannean buckthorn          Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus         Sage-leaved cistus         Sage-leaved cistus         Prickly pear         Araliaceae         Ivy         Punicaceae	887 910 925 933 936 942 869 961 965 1011 1040
Rhamnus lycioides Lavateria cretica Viola alba Viola arborescens Daphne gnidium Thymelea hirsuta Cistus clusii Cistus albidus Cistus salvifolius NiF Helianthemum marifolium NiF Fumana sp	Mediterrannean buckthorn          Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus         Sage-leaved cistus         Sage-leaved cistus         Prickly pear         Araliaceae         Ivy         Punicaceae         Pomegranate	887 910 925 933 936 942 869 961 965 1011
Rhamnus lycioides         Lavateria cretica         Viola alba         Viola arborescens         Daphne gnidium         Thymelea hirsuta         Cistus clusii         Cistus albidus         Cistus salvifolius NiF         Helianthemum marifolium NiF         Fumana sp         Opuntia maxima = ficus-indica         Hedera helix         Punica granatum	Mediterrannean buckthorn          Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus         Sage-leaved cistus         Sage-leaved cistus         Prickly pear         Araliaceae         Ivy         Punicaceae         Pomegranate         Umbelliferae/Apiaceae	887 910 925 933 936 936 942 869 942 869 961 965 1011 1040
Rhamnus lycioides         Lavateria cretica         Viola alba         Viola arborescens         Daphne gnidium         Thymelea hirsuta         Cistus clusii         Cistus albidus         Cistus salvifolius NiF         Helianthemum marifolium NiF         Fumana sp         Opuntia maxima = ficus-indica         Hedera helix         Punica granatum         Ferula communis	Mediterrannean buckthorn         Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus         Sage-leaved cistus         Sage-leaved cistus         Prickly pear         Araliaceae         Ivy         Punicaceae         Pomegranate         Umbelliferae/Apiaceae         Giant fennel	887 910 925 933 936 936 942 936 942 869 961 965 1011 1011 1040 1040
Rhamnus lycioides         Lavateria cretica         Viola alba         Viola arborescens         Daphne gnidium         Thymelea hirsuta         Cistus clusii         Cistus albidus         Cistus salvifolius NiF         Helianthemum marifolium NiF         Fumana sp         Opuntia maxima = ficus-indica         Hedera helix         Punica granatum	Mediterrannean buckthorn         Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus         Sage-leaved cistus         Sage-leaved cistus         Prickly pear         Araliaceae         Ivy         Punicaceae         Giant fennel         Alexanders	887 910 925 933 936 936 942 869 942 869 961 965 1011 1040
Rhamnus lycioides         Lavateria cretica         Viola alba         Viola arborescens         Daphne gnidium         Thymelea hirsuta         Cistus clusii         Cistus albidus         Cistus salvifolius NiF         Helianthemum marifolium NiF         Fumana sp         Opuntia maxima = ficus-indica         Hedera helix         Punica granatum         Ferula communis         Smymium olusatarum	Mediterrannean buckthorn         Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus         Sage-leaved cistus         Sage-leaved cistus         Prickly pear         Araliaceae         Ivy         Punicaceae         Pomegranate         Umbelliferae/Apiaceae         Giant fennel	887 910 925 933 936 942 936 942 869 961 965 1011 001 1011 000 1064 1040
Rhamnus lycioides         Lavateria cretica         Viola alba         Viola arborescens         Daphne gnidium         Thymelea hirsuta         Cistus clusii         Cistus albidus         Cistus salvifolius NiF         Helianthemum marifolium NiF         Fumana sp         Opuntia maxima = ficus-indica         Hedera helix         Punica granatum         Ferula communis	Mediterrannean buckthorn          Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus         Sage-leaved cistus         Sage-leaved cistus         Prickly pear         Araliaceae         Ivy         Punicaceae         Qiant fennel         Alexanders         Ericaceae	887 910 925 933 936 936 942 936 942 869 961 965 1011 965 1011 1040 1040 1040
Rhamnus lycioides         Lavateria cretica         Viola alba         Viola arborescens         Daphne gnidium         Thymelea hirsuta         Cistus clusii         Cistus albidus         Cistus salvifolius NiF         Helianthemum marifolium NiF         Fumana sp         Opuntia maxima = ficus-indica         Hedera helix         Punica granatum         Ferula communis         Smymium olusatarum	Mediterrannean buckthorn         Malvaceae         Cretan mallow         Violaceae         Mediterranean white violet (but not white)         Shrubby violet         Thymelaeaceae         Daphne         Cistaceae         Grey-leaved cistus         Sage-leaved cistus         Sage-leaved cistus         Prickly pear         Araliaceae         Ivy         Punicaceae         Giant fennel         Alexanders	887 910 925 933 936 942 936 942 869 961 965 1011 001 1011 000 1064 1040

Oleaceae			
Phillyrea angustifolia	Phillyrea or false olive	1246	
Olea europaea	Olive	1248	
·	Rubiaceae		
Galium aparine	Cleavers		
Rubia peregrina	Wild madder	1305	
Sherardia arvensis	Field madder		
	Convolvulaceae	1319	
Ipomoea purpurea Convolvulus arvensis NiF	Morning glory Field bindweed	1334	
	Boraginaceae		
Cerinthe major	Honeywort	1367	
Echium plantagineum	Purple viper's bugloss	1383	
Echium parviflorum	Small-flowered bugloss		
Borago officinalis	Borage	1395	
Lithodora fruticosa	Shrubby gromwell	1355	
Cynoglossum creticum	Blue houndstongue	1402	
Cynoglossum cherifolium	a houndstongue	1404	
	Verbenaceae	4.447	
Lantana camara	Lantana	1417	
Marrubium vulgare	Labiatae White horehound	1445	
Marrubium vulgare Phlomis purpurea		1445	
Lamium amplexicaule	Henbit deadnettle	1405	
Mentha rotundifolia	Apple mint	1523	
Rosmarinus officinalis	Rosemary	1526	
Lavandula dentata	Toothed lavender	1530	
Lavandula multifida	Cut-leaved lavender	1531	
Salvia verbeneca	Wild clary	1545	
Satureja obovata			
Satureja obovata NiF			
Thymus vulgaris NiF	Thyme	1508	
Thymus piperella NiF	Pebrella in Spanish		
	Solanaceae		
Withania somnifera	Oroval in Spanish	1558	
Solanum nigrum	Black nightshade	1563	
Nicotiana glauca	Shrub tobacco	1582	
	Scrophulariceae		
Scrophularia auriculata	Water figwort		
Verbascum sinuatum NiF		1601	
Misopates orontium	Lesser snapdragon / weasel's snout	1611	
Digitalis obscura	Spanish rusty foxglove Orobanchacae	1641	
Cistancho pholypaga	Orobanchacae	1654	
Cistanche phelypaea Orobanche lastiquama	parasitic on rosemary	1034	
	Globulariaceae		
Globularia alypum	Shrubby globularia	1677	
	Passifloraceae		
Passiflora caerula	Passion flower, fruit	1679	
	Plantaginaceae		
Plantago major	Greater plantain	1693	
Plantago coronopus	Buckshorn plantain	1696	
Plantago maritima	Sea plantain	1699	
Plantago lagopus		1702	
	Caprifoliaceae	1.715	
Lonicera implexa NiF	a perfoliate honeysuckle	1713	
Viburnum tinus	Laurestinus	1711	
Contropthup rubar	Valerianaceae Red velorian	1700	
Centranthus ruber	Red valerian Dipsacaceae	1723	
Scabiosa atropurpurea	Mournful widow	1749	
· · ·	mpositae / Asteracea	·	
Anthemis arvensis	Corn mayweed	1858	
Astericus maritimus		1848	

Calendula arvensis	Field marigold	1908
Centaurea calcitrapa NiF	Red star-thistle	1990
Centaurea pullata		2006
Chrysanthemum coronarium	Crown daisy	1895
Cichorium intybus	Chicory	2023
•		1956
Cirsium eriophorum NiF	Woolly thistle	
Galactites tomentosa	Galactites	1971
Helichrysum stoechas	Curry plant	1824
Phagnalon sp. saxatile?	Rock phagnalon	1833
Silybum marianum NiF	Milk thistle	1982
Sonchus (tenerrimus) dianae	a sow-thistle in the rocks at Gandía harbour	2073
Tolpis barbata	Tolpis	2030
	Liliaceae	2000
Asphodelus fistulosus	Hollow-leaved asphodel	2087
Asphodelus aestivus	Asphodel	2089
Urginea maritima	Sea squill, leaves/bulbs	2163
Smilax aspera	berries	2103
Muscari neglectum	Grape hyacinth	2206
Asparagus horridus		
Ruscus aculeatus	Butcher's broom, berries	2219
	Amaryllidaceae	1
Narcissus dubius		
Narcissus papyraceus	Paperwhite narcissus	2278
	Agavaceae	1
Agave americana		2253
	Iridaceae	1
Gynandriris sisyrinchium	Barbary nut iris	2305
Iris pseudacorus	Yellow flag	2290
Arum italicum	Italian lords and ladies	2361
Arisarum vulgare	Friar's cowl	2377
	Palmae	1
Chamaerops humilis	Dwarf fan palm	2357
	Gramineae/Poaceae	
Typha angustifolia	Lesser reedmace	
Arundo donax	Giant reed	2494
Avena sp.	Wild oats	
Phragmites australis	Reed	
	FERNS PTERIDOPHYTA	
Ceterach officinarum	Rustyback fern	2532
Orahia italiaa	ORCHIDS	2400
Orchis italica	Italian man orchid	2409
Orchis (mascula) olbiensis Ophrys dianica (= 0. lucentina)		
Ophrys speculum	Mirror orchid	2422
Ophrys fusca	Sombre bee orchid	2422
Ophrys (fusca) dyris		
Ophrys tenthredinifera	Sawfly orchid	2442
Ophrys x pielteri	Woodcock x sawfly	
Ophrys x catroviejoi	Mirror x woodcock	
Himantoglossum (or Barlia) robertianu		2446



*Withania somnifera*, a bushy member of the nightshade family; *Euphorbia serrata*; *Euphorbia squamigera* on which the red stems are a good feature.