

# Butterflies & Moths of the Spanish Pyrenees

Naturetrek Tour Report

16 - 23 July 2014

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## Introduction

Naturetrek's first butterfly tour in the Spanish Pyrenees for many years was a real success with more than a hundred different butterfly species seen plus many moths during a week of excellent weather. The really enthusiastic group couldn't have been better – great company and really knowledgeable about butterflies.

As well as Lepidoptera we enjoyed the birds, flowers and fauna – equally rich as the butterflies and finished the week with some very long lists!

The group was fantastic – really enthusiastic, with some real butterfly and moth experts as well as some excellent birders and an exceptional botanist. Everyone got along really well and it was altogether a sociable and fun week. Thanks to all who came and also to Peter and Melanie, our hosts at Casa Sarasa, who made us really welcome in their lovely *casa rural*.

## Day 1

**Wednesday 16<sup>th</sup> July**

We arrived at Zaragoza Airport, to be picked up and taken to Casa Sarasa in Berdún in time for dinner.

## Day 2

**Thursday 17<sup>th</sup> July**

Today dawned warm and sunny, about 25°C with no wind. Perfect for seeing butterflies! After a good breakfast, we drove up the nearby Hecho Valley which has a variety of habitats ranging from cereal and hay fields lower down, pine and oak forest and, higher up, Beech and Silver Fir forest below the alpine pastures. We stopped along the valley and spotted many butterfly species in the hayfields and verges, including abundant Silver-washed Fritillaries on brambles, as well as Dark Green, Spotted and Heath Fritillaries. We saw many Marbled Whites which were ubiquitous throughout the week, mostly attracted by the Scabious flowers in the meadows. Scarce

Copper were fairly abundant and we observed five different blues including Holly, Mazarine and the striking Silver-studded Blue. Skippers were well represented with Mallow, Marbled, Essex, Small and Large Skippers.

The botanists were well rewarded with many flowers including Pyrenean Saxifrage, swathes of Tufted Vetch, Pyrenean Honeysuckle, Large Flowered Butterwort and many more local specialities.

We later continued up through the Boca del Infierno and on to the Selva de Oza beech forest where, while having our picnic lunch, we saw Wood White, Green-veined White, Southern White Admiral and Swallowtail. Vultures and Short-toed Eagle flew overhead and Citril Finches were around the meadow fringes. Dipper were seen in the nearby river Aragón Subordán. After lunch we drove up to the alpine pastures for great high mountain views up to the border with France, and were rewarded with Ringlets, Piedmont and Spanish Brassy Ringlets plus Common and Mazarine Blues.

After a good while exploring the high valley we decided to return to Casa Sarasa where after a beer and a shower we went over the lists and then enjoyed a great supper provided by Casa Sarasa. An excellent first day!

## Day 3

Friday 18<sup>th</sup> July

Today had been forecast as being very hot, so we decided to try for more alpine Lepidoptera by taking the ski lift to the top of the Astún ski station, at 2200 metres. The ride up on the lift was spectacular, with amazing views over the high Pyrenees. One of the group nearly went around twice but was rescued just in time!

Once up high, a southerly wind got up and it was a bit too windy for butterflies to be on the wing, but we enjoyed a walk towards a glacial lake and the group's botanists had a fabulous time, seeing some wonderful alpins including Trumpet Gentian, Pyrenean Buttercup, Alpenrose, and a host of other flowers. The biggest bonus of the morning was a superb view of a Lammergeier, which came over a rise and flew a few metres above us. Quite stunning.

Some of the group walked back down the mountain while others caught the lift back down. We enjoyed our picnic lunch, keeping an eye on the clouds coming from the South which gave us a brief shower.

We then walked down from the border at the Somport pass towards Candanchu, always a good area for Lepidoptera and plants. There were many Clouded Yellows, and the Apollo butterfly, so characteristic of the Pyrenees, made an appearance with its flight-sound like paper. Purple-edged Copper was seen in its characteristic marshy habitat, alongside Twayblade, Common Spotted and Early Marsh orchids. Blues were abundant with Small, Common and Spanish Chalkhill identified.

We then drove down the Aragón Valley and, after a stop for a drink and a look around the town of Jaca, headed towards our base at Berdún. We had one last stop at an area of dry grassland and oak woods, with a stream running through it. This proved to be the best site of the day with a huge variety of butterflies including Silver-studded, Long-tailed, Green-underside and Provençal Short-tailed Blues. It was also fantastic to see Forster's Furry Blues, which have a small range in the exterior sierras of the Pyrenees. There were many Pearly and Small Heaths, and Spanish Swallowtails. The Fritillaries were also abundant with Knapweed, Glanville, Dark Green,

Silver-washed, Heath and False Heath Fritillaries. Meanwhile Bonelli's Warblers were singing in the oaks and one or two Golden Ringed Dragonflies were flying along the stream course.

We finally dragged ourselves away and back to Berdún for a welcome drink, to go over the lists and enjoy another dinner at Casa Sarasa.

## Day 4

Saturday 19<sup>th</sup> July

Today dawned sunny and hot, with a few clouds. After breakfast, we drove a short distance down to the Aragón river flats near Martes, on the lookout for more new butterfly species. As we arrived we saw a Roe deer, which seemed to take a long time to find a way out of the field as it ran back and forth. It was very hot and very little was stirring at first. However we soon started seeing butterflies: Woodland Grayling, False Ilex Hairstreak, Brown Argus, Southern Brown Argus, Weaver's, Knapweed and Lesser Marbled Fritillary and many Southern Gatekeeper. We also saw Holly Blue and a Silver-studded Blue which was a new species for many of us. There were quite a few Bee-eaters flying above the trees, with their nesting holes in the nearby sandy river bank, and it was great to see a female Marsh Harrier fly above us. We saw Pied and Spotted Flycatcher across the river from us, and Common Sandpiper skittered along the river bank.

We returned to Casa Sarasa to escape the midday heat, and had a picnic indoors! Then, after a siesta, we headed to the Biniés Gorge just up the road from Berdún. As Griffon vultures soared overhead, we walked slowly along the river seeing False Ilex Hairstreak, Southern White Admiral, Berger's Clouded Yellow, Cleopatra and Brimstone. Spanish Swallowtail was really plentiful and there were a few Banded Demoiselles near the water. Crag Martins swooped just above our heads, and an Egyptian Vulture made an appearance on the way to its nest in the gorge cliffs. One of the group also saw a Peregrine Falcon, and a Kingfisher darting along the river. There were many Marbled White and a variety of skippers in the field just above the gorge and it looked a promising site so, as time was running out, we decided to go back to Casa Sarasa and return the next morning.

## Day 5

Sunday 20<sup>th</sup> July

Today dawned sunny and breezy. After checking the moth trap as every morning (see appendix) we drove up the Biniés Gorge to revisit the meadow we had been at the day before. It was much livelier at this time of day, with many Marbled White, Chapman's, Common and Foster's Furry Blues, and many Small and Pearly Heaths. There was a great selection of Skippers with Small, Silver-spotted, Red-underwing, Mallow and Dingy Skippers seen. There were several Fritillary species including Glanville, Weaver's and Twin-spot. A Short-toed Eagle flew above, as did a Kestrel. Griffon Vultures were soaring high, starting their daily patrol in search of food. For the group's botanists, the meadow was rather dry at this time of year and there were few flowers to admire. After an excellent hour in the meadow, we got into the minibuses to drive south to the Pre-Pyrenees, about 45 minutes away.

Our first stop was at the village of Agüero, dominated by its majestic conglomerate rock pinnacles. The strong breeze didn't help with seeing butterflies, but we did see plenty of Marbled Whites, Clouded Yellows and Berger's Clouded Yellows. There were a few Fritillaries – Knapweed and Weaver's - and the ubiquitous Spanish Swallowtails. Southern White Admiral and Black Satyr were also seen. We saw Blue Rock Thrush on the cliffs,

and kept a lookout for Black Wheatear and Dartford Warbler, which we heard but did not see. We did see Sardinian Warbler, and enjoyed watching Egyptian Vultures coming and going from their cliff nest sites.

As it was fairly quiet, we moved a few kilometres along a dirt road towards the tiny hamlet of San Felices, which is surrounded by pine forest and, more importantly, by Strawberry trees (*Arbutus unedo*) – the food plant of the Two tailed Pasha which we really wanted to see.

We found a spot for lunch – another excellent picnic from Casa Sarasa – in the shade on this very hot day. Meanwhile we kept our eyes open for the Two-tailed Pasha which we saw but fleetingly, as it was very breezy and these magnificent butterflies are powerful and fast flyers!

We then continued our exploration of this beautiful area of the Pre-Pyrenees, heading across to Riglos – rock pinnacles, a picture perfect village and another chance for butterflies! After a cool drink or ice cream (or both!), we sallied out into the sun again, walking under the cliffs looking for butterflies and enjoying wonderful views over the Gállego valley. It was still windy so there weren't many butterflies, but we did see a few Chapman's and Common Blues, a Brown Argus and the inevitable Marbled Whites.

On the way back to Casa Sarasa, we briefly stopped at a meadow area at the Arres junction to see if we could get a few more species on our list, but it continued windy and there were few butterflies to be seen. Even so we had had a really good day getting to know a new and different area. The Pre-Pyrenees are better for butterflies earlier in the summer, in May and June, but it was worth it to see the Two tailed Pasha, even if only as it whizzed past!

## Day 6

Monday 21<sup>st</sup> July

Monday dawned cloudy but it gradually cleared up, for another brilliant sunny day. We decided to head for another of the High Pyrenees valleys, this time the Aisa valley a bit further east.

Once in the valley, we stopped at likely looking meadows along the road up the valley. The plentiful Scabious and Wild Carrot blooms were a real draw for the butterflies – there were literally clouds of Marbled Whites and a huge variety of other butterflies including our first Queen of Spain and Marsh Fritillaries, Spanish Purple Hairstreak and many, for us new, blues, including Mazarine, Turquoise, Meleager's, Osiris and Lang's Short-tailed Blues.

There were many skippers in evidence, mostly Large Skippers but also Mallow, Small, Lulworth and Silver-spotted. The sheer number of butterflies was almost overwhelming with, as well as the above, many Scarce Coppers, Small Coppers, countless Silver-washed Fritillaries on the brambles, White Admirals, Southern White Admirals, Commas....

We gradually got to the top of the valley where most people stayed along the (quiet) mountain road spotting, photographing and identifying the different species. The blues take some close observation to identify, and thanks to Reg for his expertise and amazing visual memory with them. Higher up, we saw Apollos, De Prunner's and, appropriately, Pyrenean Brassy Ringlets, plus Swallowtails which hadn't been much in evidence until today.

The botanists had a fantastic time in the alpine area beyond the road, seeing some wonderful specimens of Martagon Lilies, Pink Kidney Vetch, Pyrenean Pinks, Angelica, Mountain Pines, Pyramidal Orchids, several different Rock-roses, Lady's Bedstraw which filled the air with its scent, various saxifrages etc etc!

This was certainly the best day of the tour for butterflies, not to mention flowers. In total we saw 65 different species in one valley. Quite staggering when you think that there are 59 species which breed in the entire UK!

We returned, tired but happy, to Casa Sarasa and enjoyed a cold beer while compiling the day's lists. Between butterflies, flowers and birds this took quite a while!

## Day 7

Tuesday 22<sup>nd</sup> July

Another sunny morning! We started the day by walking a really nice and gentle track, part of the Aragonese Camino de Santiago, east from the village of Arres. Birds of prey were a highlight here with Short-toed Eagles, Booted Eagles and a Montagu's Harrier seen. We spotted an Adonis Blue, the one and only specimen of the trip, as well as Long-tailed and Osiris Blues. It was good to hear Wood Lark singing, and Gerald pointed out a Lesser Whitethroat. We also saw Sardinian and Dartford Warblers, Red-backed Shrike, Cirl and Rock Bunting, and heard Bonelli's Warblers. Pearly and Dusky Heaths were plentiful, as were Spanish Gatekeepers and, of course, Marbled Whites.

After our walk, we managed to get the group together and keep them from searching the meadow for new species, and headed for Santa Cilia and its Muladar – this is a fenced off area where dead animals are dumped for disposal by Griffon and other vultures. We knew that today was when the dead farm animals were to be dumped there, so we got to the hide overlooking the Muladar just in time for the spectacle to begin. It's amazing to see several hundred huge Griffon Vultures circling, and when one finally decides to land to feed then all of them swoop down and a macabre natural spectacle begins! As well as Griffons, there were Egyptian Vultures, plus Ravens and Red and Black Kites getting in on the act. We watched for half an hour or so and, by this time, several dead sheep had been reduced to skin and bone.

Before driving off, we braved the midday sun to investigate a promising meadow, quite dry but still full of butterflies including many Large Skippers and Adonis, Long-tailed and Osiris Blues. There were also thousands of crickets, which are a mainstay food source for the Montagu's Harriers.

We then drove up to San Juan de La Peña, the site of an ancient monastery and an excellent area for Lepidoptera, birds and plants. We had another great picnic lunch in the shade of a big old Scots Pine and, after coffee and ice creams in the nearby café, we struck off along a forest path. We saw False Heath Fritillary, and some of us saw a Camberwell Beauty, which was the only one of the whole trip! (We tend to see more either earlier in the year or in September.) There were hundreds of Silver-washed Fritillaries, and a very fine Emperor Dragonfly flew among the pines. Also in evidence were Short-toed Treecreepers, Coal and Crested Tits, and we heard a Black Woodpecker call. Looking out north from a viewpoint, we had an excellent view of the high Pyrenees to the North.

We then walked down to the old monastery, with its 900 year old cloister sheltered under the overhang of a huge, conglomerate cliff. Some of the group went to look around the monastery, while the rest of us walked

slowly down the road, enjoying the shade and seeing many more Silver-washed Fritillaries and the occasional Marbled Fritillary. There were Blackcap and Nuthatch calling in the trees.

Once we had all joined up from our various explorations, we fetched the minibuses and drove back to Casa Sarasa, after an excellent and varied day. That evening our hosts Pete and Mel made us a barbecue outside in the garden, and it made a perfect final supper of the week.

It's amazing how much you can pack in to a day!

## Day 8

Wednesday 23<sup>rd</sup> July

Our last day. As the flight from Zaragoza wasn't leaving until early evening, we had all day to explore new areas between Berdún and Zaragoza. We started out after breakfast, and soon stopped at a dry meadow where Reg identified an African Grass Blue, with its metallic wings with a darker fringe around them. We also saw Purple-shot Copper, and Long-tailed and Short-tailed Blues.

We were soon driving past Riglos, and turned uphill to the Mirador de Los Buitres, the Vulture Lookout, a stunning viewpoint looking over the Gallego Valley, the Riglos pinnacles, and south towards the Huesca plains. We had our final picnic in this wonderful spot and, despite the wind keeping most butterflies out of sight, it was wonderful. We saw Stonechat, more vultures and many Crag Martins, before going back downhill to Loarre Castle. Some of us looked around this fantastically preserved 11th Century castle, built when this was the frontier between Moorish Spain and the kingdom of Aragón. The rest of us looked for butterflies, seeing Bath White, Mountain Argus, many Clouded Yellow, Queen of Spain Fritillary and Spotted Fritillary. It was really hot, and most of us ended up in the café, having cold drinks and ice cream, before we continued on to Zaragoza.

We had quite a lot of time to spare, so we headed for a wetland area called Los Galachos, which can be an excellent site for butterflies including the African Monarch but, at this late stage of the summer, there was very little to see, and the strong wind didn't help. After spotting ducks, Coots and Reed Warbler from a hide, we beat a retreat from the extreme heat, and explored along the River Ebro a little, finding a few butterflies and seeing Common Sandpiper along the banks. Then it was time to drop everyone at the airport, where they could cool off and have a bite to eat before catching the flight back to the UK. We said our goodbyes, and so ended a brilliant week of Butterflies and Moths in the Spanish Pyrenees.

## Moths

We set a moth trap each night, either at Casa Sarasa or in a garden a little further North. We listed 40 species many of which have been very hard to identify exactly. Spain does not have the excellent moth guides that we have in the UK. Many thanks to Tony Mainwood for his input and efforts during and after the tour, to keep an excellent photographic record and subsequently to identify the moths. Chris Gibson also helped Tony to identify the mysteries, so thanks to him also. It was fantastic to start a proper record of moths in the area, and we will continue to add to the list as time goes on. Many of the moths were strikingly beautiful, and it's a fascinating if highly intricate and, here in Spain, quite difficult study. Please see the list attached.

## Plants

There were two very keen botanists on the trip and we observed a huge list of alpine and Mediterranean species in the many different habitats we visited. As this was principally a butterfly tour I haven't gone into any detail in this report. There is a list attached which attests to the huge range of plants in this area. Again huge thanks to one of the tour participants, Frances, who compiled an exhaustive list of the flora after the tour. Her list is attached. There are still one or two mystery plants we are looking into!

## Birds

We also saw a huge range of birds, again not the main objective of the tour, but a great bonus. Thanks to John for his assiduous spotting during the week. We had some fantastic sightings – not least the Lammergeier up close, the day we went up the ski lift at Astún. Another exciting spot was the Lesser Whitethroat (*Sylvia curruca*) which doesn't breed here (it's a more northern European bird) and is very rarely seen in Huesca province. Up to 1998 it had only been recorded 4 times in the province, each time in the Canal de Berdún. This makes it a 5th time!

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## Species List

Butterflies (✓ = recorded but not counted)

	Common name	Scientific name	July						
			17	18	19	20	21	22	23
1	Apollo	<i>Parnassius apollo</i>		✓			✓		
2	Swallowtail	<i>Papilio machaon</i>	✓				✓	✓	
3	Spanish Swallowtail	<i>Iphiclides feisthamelii</i>	✓	✓	✓	✓	✓	✓	✓
4	Wood White	<i>Leptidae sinapsis</i>	✓	✓	✓	✓	✓	✓	✓
5	Black-veined White	<i>Aporia cratargi</i>	✓				✓		
6	Large White	<i>Pieris brassicae</i>	✓	✓	✓		✓	✓	✓
7	Small White	<i>Artogeia rapae</i>	✓	✓	✓	✓	✓	✓	✓
8	Green-veined White	<i>Artogeia napi</i>	✓	✓		✓	✓	✓	✓
9	Bath White	<i>Pontia daplidaze</i>			✓				✓
10	Clouded Yellow	<i>Colias crocea</i>	✓	✓	✓	✓	✓	✓	✓
11	Berger's Clouded Yellow	<i>Colias australis</i>		✓	✓	✓	✓	✓	✓
12	Brimstone	<i>Gonepteryx rhamni</i>	✓	✓	✓	✓	✓	✓	✓
13	Cleopatra	<i>Gonepteryx cleopatra</i>	✓	✓	✓	✓	✓	✓	✓
14	False Ilex Hairstreak	<i>Satyriscum esculi</i>	✓		✓	✓		✓	✓
15	Blue-spot Hairstreak	<i>Satyriscum spini</i>	✓			✓			
16	Spanish Purple Hairstreak	<i>Laeosopis evippus</i>		✓			✓	✓	
17	Purple Hairstreak	<i>Stymonidia</i>							✓
18	Small Copper	<i>Lycaena phlaeas</i>					✓	✓	
19	Scarce Copper	<i>Lycaena virgaureae</i>	✓	✓			✓		
20	Purple-edged Copper	<i>Lycaena hippothoe</i>		✓					
21	Purple-shot Copper	<i>Lycaena alciphron</i>							✓
22	Geranium Bronze	<i>Cacyreus marshalli</i>			✓				
23	African Grass Blue	<i>Zizeeria knysna</i>							✓
24	Long-tailed Blue	<i>Lampides boeticus</i>		✓				✓	✓
25	Lang's Short-tailed Blue	<i>Leptotes pirithous</i>					✓		
26	Large Blue	<i>Maculinea arion</i>	✓						
27	Meleager's Blue	<i>Meleageria daphnis</i>					✓		
28	Osiris Blue	<i>Cupido osiris</i>					✓	✓	
29	Silver-studded Blue	<i>Plebejus argus</i>	✓	✓	✓				
30	Little Blue	<i>Cupido minimus</i>	✓	✓					✓
31	Green-underside Blue	<i>Glaucopteryx alexis</i>		✓					
32	Brown Argus	<i>Aricia agestis</i>			✓	✓	✓	✓	✓
33	Spanish Brown Argus	<i>Aricia morronensis</i>			✓		✓	✓	
34	Mountain Argus	<i>Aricia artaxerxes</i>							✓
35	Short-tailed Blue	<i>Everes argiades</i>							✓
36	Provençal Short-tailed Blue	<i>Everes alcetas</i>		✓					
37	Holly Blue	<i>Celastrina argiolus</i>	✓		✓				✓
38	Mazarine Blue	<i>Cyaniris semiargus</i>	✓				✓		
39	Amanda Blue	<i>Polymmatius amandus</i>					✓	✓	
40	Chapman's Blue	<i>Polyommatus thersites</i>				✓	✓	✓	
41	Turquoise Blue	<i>Polyommatus dorylas</i>					✓		✓
42	Adonis Blue	<i>Lysandra bellargus</i>						✓	
43	Common Blue	<i>Polyommatus icarus</i>	✓	✓	✓	✓	✓	✓	✓
44	Spanish Chalkhill Blue	<i>Polyommatus albicans</i>		✓	✓	✓	✓	✓	✓
45	Forster's Furry Blue	<i>Agrodiaetus ainsae</i>		✓		✓	✓	✓	
46	White Admiral	<i>Limnitis camilla</i>	✓				✓		
47	South White Admiral	<i>Limentitis reducta</i>	✓		✓	✓	✓		

	Common name	Scientific name	July						
			17	18	19	20	21	22	23
48	Purple Emperor	<i>Apatura iris</i>					✓		✓
49	Camberwell Beauty	<i>Nymphalis antiopa</i>						✓	
50	Red Admiral	<i>Vanessa atalanta</i>					✓		✓
51	Painted Lady	<i>Vanessa cardui</i>			✓		✓	✓	✓
52	Comma	<i>Polygonia c-album</i>					✓	✓	
53	Two-tailed Pasha	<i>Charaxes jasius</i>				✓			
54	Cardinal	<i>Pandoriana pandora</i>							✓
55	Silver-washed Fritillary	<i>Argynnis paphia</i>	✓	✓	✓	✓	✓	✓	✓
56	Dark Green Fritillary	<i>Argynnis aglaja</i>	✓	✓	✓	✓	✓	✓	✓
57	Queen of Spain Fritillary	<i>Issoria lathonia</i>					✓	✓	✓
58	Twin-spot Fritillary	<i>Brenthis hecate</i>				✓	✓		✓
59	High Brown Fritillary	<i>Argynnis adippe</i>		✓	✓	✓	✓	✓	✓
60	Marbled Fritillary	<i>Brenthis daphne</i>					✓	✓	
61	Lesser Marbled Fritillary	<i>Brenthis ino</i>			✓				
62	Weaver's Fritillary	<i>Boloria dia</i>			✓	✓	✓	✓	
63	Glanville Fritillary	<i>Melitaea cinxia</i>		✓		✓	✓	✓	✓
64	Knapweed Fritillary	<i>Melitaea phoebe</i>		✓	✓	✓			
65	Spotted Fritillary	<i>Melitaea didyma</i>	✓				✓		✓
66	Heath Fritillary	<i>Melitaea athalia</i>	✓	✓			✓		
67	False Heath Fritillary	<i>Melitaea diamina</i>	✓	✓				✓	
68	Marsh Fritillary	<i>Euphydryas aurinia</i>					✓		
69	Marbled White	<i>Melanargia galathea</i>	✓	✓	✓	✓	✓	✓	✓
70	Great Banded Grayling	<i>Brinesia circe</i>	✓	✓	✓	✓	✓	✓	✓
71	Grayling	<i>Hipparchia semele</i>					✓	✓	✓
72	Woodland Grayling	<i>Hipparchia fagi</i>			✓		✓	✓	✓
73	Striped Grayling	<i>Hipparchia fidia</i>						✓	
74	Dryad	<i>Minois dryas</i>							✓
75	Black Satyr	<i>Satyrus actaea</i>		✓		✓	✓		
76	De Prunner's Ringlet	<i>Erebia triaria</i>					✓		
77	Piedmont Ringlet	<i>Erebia meolans</i>	✓	✓			✓		
78	Pyrenean Brassy Ringlet	<i>Erebia rondoul</i>	✓						
79	Dusky Meadow Brown	<i>Hyponephele lycaon</i>						✓	
80	Meadow Brown	<i>Maniola jurtina</i>	✓	✓	✓	✓	✓	✓	✓
81	Spanish Gatekeeper	<i>Pyronia bathseba</i>		✓	✓	✓	✓	✓	
82	Gatekeeper	<i>Pyronia tithonus</i>	✓	✓	✓	✓		✓	✓
83	Southern Gatekeeper	<i>Pyronia cecilia</i>			✓	✓	✓	✓	
84	Dusky Heath	<i>Coenonympha dorus</i>				✓	✓	✓	
85	Pearly Heath	<i>Coenonympha arcania</i>	✓	✓	✓	✓	✓	✓	✓
86	Small Heath	<i>Coenonympha pamphilus</i>		✓					
87	Spanish Heath	<i>Coenonympha iphoides</i>					✓		
88	Speckled Wood	<i>Pararge aegeria</i>	✓		✓			✓	✓
89	Ringlet	<i>Aphantopus hyperantus</i>	✓						
90	Wall Brown	<i>Lasiommata megera</i>	✓	✓	✓	✓	✓	✓	✓
91	Large Wall Brown	<i>Lasiommata maera</i>	✓	✓			✓		
92	Large Grizzled Skipper	<i>Pyrgus alveus</i>					✓		
93	Oberthur's Grizzled Skipper	<i>Pyrgus armoricanus</i>							
94	Red-underwing Skipper	<i>Spialia sertorius</i>			✓	✓			✓
95	Mallow Skipper	<i>Carcharodus alceae</i>	✓				✓		✓
96	Marbled Skipper	<i>Carcharodus lavatherae</i>	✓	✓	✓	✓			
97	Essex Skipper	<i>Thymelicus lineola</i>	✓	✓	✓				
98	Small Skipper	<i>Thymelicus sylvestris</i>	✓	✓	✓	✓	✓	✓	✓

	Common name	Scientific name	July						
			17	18	19	20	21	22	23
99	Dingy Skipper	<i>Erynnis tages</i>			✓	✓			
100	Large Skipper	<i>Ochlodes venatus</i>	✓	✓	✓	✓	✓	✓	✓
101	Lulworth Skipper	<i>Thymelicus hyrax</i>					✓	✓	
102	Silver-spotted Skipper	<i>Hesperia comma</i>				✓	✓		✓

## Moths (Grey indicates ID not positively made)

CS = Casa Sarasa

R = Richard's house

Species	Taxon	CS 17- 18	CS 19- 20	R July 20- 21	CS 21- 22	CS 22- 23
Knot Grass	<i>Acronicta rumicis</i>	✓				
Scarce Footman	<i>Eilema complana</i>	✓			✓	
Pos. a very strongly marked Delicate an Emerald	<i>Mythimna vitellina</i>	✓				
Wave sp poss Bright or Ochreous	<i>Phaioграмма etruscaria</i>	✓	✓	✓		
Passenger	<i>Idaea ochrata/serpentata</i>	✓				
Willow Beauty	<i>Dysgonia algira</i>	✓	✓			
Small Chocolate-tip	<i>Peribatodes rhomboidaria</i>		✓	✓		✓
Pine Processionary	<i>Clostera pigra</i>		✓			
Yellow-tail	<i>Thaumetopoea pityocampa</i>		✓			
Ruby Tiger	<i>Euproctis similis</i>		✓		✓	
White-spotted Pinion	<i>Phragmatobia fuliginosa</i>		✓			
	<i>Cosmia diffinis</i>		✓			
	possible <i>Lacanobia species</i>		✓			
Poss. Grey Bordered Bloom	<i>Isturgia murinaria</i>		✓			
Guernsey Underwing	<i>Polyphaenis sericata</i>		✓			✓
Riband Wave	<i>Idaea aversata</i>			✓		✓
Poss. Dotted Wave	<i>Idaea rufaria</i>			✓		
Poss. Mullein Wave or Mediterranean Lace Border	<i>Scopula marginaepunctata</i> or <i>S. submutata</i>			✓		
	<i>Charissa/Euchrognophus mucidaria</i>			✓		
	probably <i>Pseudoterpna coronillaria</i>			✓		
Small Lappet	<i>Phyllodesma ilicifolia</i>				✓	
Black Arches	<i>Lymantria monacha</i>				✓	
Buff-tip	<i>Phalera bucephala</i>				✓	
Swallow Prominent	<i>Pheosia tremula</i>				✓	
Early Thorn	<i>Selenia dentaria</i>				✓	
Dotted Footman	<i>Pelosia muscerda</i>				✓	
Clay Fan-foot	<i>Paracolax tristalis</i>				✓	
	<i>Noctuid sp</i>				✓	
	a pyralid <i>Metasia cuencalis</i> (or <i>M. ophilais</i> )				✓	
	prob <i>Tephronia lhommaria</i>				✓	✓
	<i>Rhegmatoiphila alpina</i>				✓	
Poplar Hawk-moth	<i>Laothoe populi</i>					✓
Latticed Heath	<i>Chiasmia clathrata</i>					✓
Sussex Emerald	<i>Thalera fimbrialis</i>					✓
Canary-shouldered Thorn	<i>Ennomos alniaria</i>					✓
Brown-line Bright-eye	<i>Mythimna conigera</i>					✓
Waved Umber	<i>Menophra abruptaria</i>					✓
	perhaps an obscurely marked <i>Tephronia sepiaria</i> or <i>lhommaria</i>					✓
Kent Black Arches	<i>Meganola albula</i>					✓

## Birds (h = heard only)

	Common name	Scientific name	July						
			17	18	19	20	21	22	23
1	Mallard	<i>Anas platyrhynchos</i>							✓

	Common name	Scientific name	July						
			17	18	19	20	21	22	23
2	Red-legged Partridge	<i>Alectoris rufa</i>			✓				
3	Great Crested Grebe	<i>Podiceps cristatus</i>				✓			
4	Little Egret	<i>Egretta garzetta</i>							✓
5	Grey Heron	<i>Ardea cinerea</i>					✓		✓
6	White Stork	<i>Ciconia ciconia</i>							✓
7	Lammergeier	<i>Gypaetus barbatus</i>		✓			✓		
8	Eurasian Griffon Vulture	<i>Gyps fulvus</i>	✓	✓	✓	✓	✓	✓	✓
9	Egyptian Vulture	<i>Neophron percnopterus</i>	✓	✓	✓		✓	✓	✓
10	Short-toed Snake Eagle	<i>Circaetus gallicus</i>				✓		✓	✓
11	Booted Eagle	<i>Aquila pennata</i>				✓		✓	
12	Red Kite	<i>Milvus milvus</i>	✓	✓	✓	✓	✓	✓	✓
13	Black Kite	<i>Milvus migrans</i>	✓	✓	✓	✓	✓	✓	✓
14	Western Marsh Harrier	<i>Circus aeruginosus</i>	✓						
15	Montagu's Harrier	<i>Circus pygargus</i>					✓		
16	Common Buzzard	<i>Buteo buteo</i>	✓	✓	✓	✓	✓	✓	✓
17	Common Kestrel	<i>Falco tinnunculus</i>		✓		✓		✓	
18	Eurasian Hobby	<i>Falco subbuteo</i>					✓		
19	Peregrine Falcon	<i>Falco peregrinus</i>					✓		
20	Common Sandpiper	<i>Actitis hypoleucos</i>				✓			✓
21	Yellow-legged Gull	<i>Larus michahellis</i>		✓					
22	Rock Dove / Feral Pigeon	<i>Columba livia</i>	✓						
23	Common Wood Pigeon	<i>Columba palumbus</i>	✓						
24	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	✓	✓	✓	✓	✓	✓	✓
25	European Turtle Dove	<i>Streptopelia turtur</i>				✓			
26	Thekla Lark	<i>Galerida Theklae</i>			✓		✓		
27	Woodlark	<i>Lullula arborea</i>				✓	✓		
28	Common Sand Martin	<i>Riparia riparia</i>			✓				
29	Eurasian Crag Martin	<i>Ptyonoprogne rupestris</i>	✓	✓	✓	✓	✓	✓	✓
30	Barn Swallow	<i>Hirundo rustica</i>	✓	✓	✓	✓	✓	✓	✓
31	Red-rumped Swallow	<i>Hirundo daurica</i>				✓		✓	
32	Common House Martin	<i>Delichon urbicum</i>	✓	✓	✓	✓	✓	✓	✓
33	Tawny Pipit	<i>Anthus campestris</i>						✓	
34	White Wagtail	<i>Motacilla alba</i>	✓	✓	✓	✓	✓	✓	✓
35	Blue-headed Yellow Wagtail	<i>Motacilla flava iberiae</i>				✓			
36	Grey Wagtail	<i>Motacilla cinerea</i>		✓		✓			
37	White-throated Dipper	<i>Cinclus cinclus</i>	✓						
38	Dunnock	<i>Prunella modularis</i>	✓						
39	European Robin	<i>Erithacus rubecula</i>	✓	✓	✓	✓	✓	✓	
40	Common Nightingale	<i>Luscinia megarhynchos</i>	✓	✓	✓	✓	✓	✓	✓
41	Black Redstart	<i>Phoenicurus ochruros</i>	✓	✓	✓	✓	✓	✓	✓
42	Northern Wheatear	<i>Oenanthe oenanthe</i>	✓	✓			✓	✓	
43	Common Stonechat	<i>Saxicola torquata</i>						✓	✓
44	Song Thrush	<i>Turdus philomelos</i>	✓					✓	
45	Common Blackbird	<i>Turdus merula</i>	✓	✓	✓	✓	✓	✓	✓
46	Blue Rock Thrush	<i>Monticola solitarius</i>				✓		✓	
47	Spotted Flycatcher	<i>Muscicapa striata</i>			✓	✓			
48	Pied Flycatcher	<i>Ficedula hypoleuca</i>				✓			
49	Great Tit	<i>Parus major</i>	✓	✓	✓	✓	✓	✓	✓
50	European Blue Tit	<i>Cyanistes caeruleus</i>		✓		✓		✓	
51	Coal Tit	<i>Parus ater</i>	✓			✓		✓	
52	Crested Tit	<i>Lophophanes cristatus</i>				✓		✓	

	Common name	Scientific name	July						
			17	18	19	20	21	22	23
53	Eurasian Nuthatch	<i>Sitta europaea</i>						✓	
54	Short-toed Treecreeper	<i>Certhia brachydactyla</i>						✓	
55	Red-backed Shrike	<i>Lanius collurio</i>				✓		✓	
56	Eurasian Jay	<i>Garrulus glandarius</i>	✓			✓		✓	
57	Western Jackdaw	<i>Corvus monedula</i>	✓	✓				✓	
58	Red-billed Chough	<i>Pyrrhocorax pyrrhocorax</i>	✓	✓	✓	✓	✓	✓	✓
59	Alpine Chough	<i>Pyrrhocorax graculus</i>		✓					
60	Carrion Crow	<i>Corvus corone</i>	✓	✓	✓	✓	✓	✓	✓
61	Common Raven	<i>Corvus corax</i>	✓	✓	✓	✓	✓	✓	✓
62	Spotless Starling	<i>Sturnus unicolor</i>	✓	✓	✓	✓	✓	✓	✓
63	Eurasian Golden Oriole	<i>Oriolus oriolus</i>						✓	
64	House Sparrow	<i>Passer domesticus</i>	✓	✓	✓	✓	✓	✓	✓
65	Eurasian Tree Sparrow	<i>Passer montanus</i>						✓	
66	Common Rock Sparrow	<i>Petronia petronia</i>				✓			
67	Common Chaffinch	<i>Fringilla coelebs</i>	✓	✓	✓	✓	✓	✓	
68	Common Linnet	<i>Carduelis cannabina</i>	✓		✓	✓	✓	✓	
69	European Goldfinch	<i>Carduelis carduelis</i>	✓				✓	✓	
70	European Greenfinch	<i>Chloris chloris</i>				✓		✓	
71	Citril Finch	<i>Cardulis citrinella</i>	✓			✓		✓	
72	Rock Bunting	<i>Emberiza cia</i>						✓	

## Plants (Courtesy of Frances Boarder)

Scientific name	Common name	Location
<b>PTERIDOPHYTES</b>	<b>FERNS &amp; ALLIES</b>	
<i>Asplenium ruta-muraria</i>	Wall Rue	walls of field church
<i>Asplenium trichomanes</i>	Maidenhair Spleenwort	walls of Loarre Castle
<i>Cryptogramma crispa</i>	Parsley Fern	high mountains, above ski lift
<i>Dryopteris felix-mas</i>	Male Fern	
<i>Pteridium aquilinum</i>	Bracken	
<b>Equisetaceae</b>		
<i>Equisetum arvense</i>	Common Horsetail	
<b>GYMNOSPERMS</b>	<b>CONIFERS</b>	
<b>Cupressaceae</b>	<b>Cypress Family</b>	
<i>Cupressus sempervirens</i>	Italian Cypress	
<i>Juniperus communis</i>	Common Juniper	
<b>Pinaceae</b>	<b>Pine Family</b>	
<i>Abies alba</i>	Silver Fir	
<i>Pinus nigra</i>	Austrian Pine	
<i>Pinus sylvestris</i>	Scots Pine	
<i>Pinus uncinata</i>	Mountain Pine	
<b>ANGIOSPERMS</b>	<b>FLOWERING PLANTS</b>	
<b>Eu-dicots</b>	<b>True Dicotyledons</b>	
<b>Adoxaceae</b>	<b>Moschatel Family</b>	
<i>Sambucus ebulus</i>	Dwarf Elder	
<i>Sambucus nigra</i>	Elder	

Scientific name	Common name	Location
<i>Sambucus racemosa</i>	Red-berried Elder	
<i>Viburnum lantana</i>	Wayfaring Tree	
<b>Amaranthaceae</b>	<b>Amaranth Family</b>	
<i>Amaranthus retroflexus</i>	Common Amaranth	
<i>Atriplex patula</i>	Common Orache	
<i>Atriplex rosea</i>	A Grass-leaved Orache	
<i>Chenopodium bonus-henricus</i>	Good King Henry	
<b>Anacardiaceae</b>	<b>Sumach Family</b>	
<i>Pistacia lentiscus</i>	Mastic tree	
<i>Pistacia terebinthus</i>	Turpentine tree	
<i>Rhus typhina</i>	Sumach Tree	planted/garden
<b>Apiaceae</b>	<b>Carrot Family</b>	
<i>Angelica sylvestris</i>	Angelica	Somport walk
<i>Anthriscus sylvestris</i>	Cow Parsley	
<i>Bupleurum falcatum</i>	Sickle-leaved Hare's-ear	
<i>Conopodium pyreneicum</i>	Conopodium	
<i>Daucus carota</i>	Wild Carrot	
<i>Endressia pyrenaica</i>	Endressia	
<i>Eryngium bourgatii</i>	Pyrenean Eryngo	
<i>Eryngium campestre</i>	Field Eryngo	
<i>Foeniculum vulgare</i>	Fennel	
<i>Gypsophila repens</i>	Alpine Gypsophila	
<i>Heracleum sphondylium</i>	Hogweed	
<i>Laserpitium latifolium</i>	Broad-leaved Sermountain	
<i>Meum athamanticum</i>	Spignel	
<i>Oenanthe aquatica?</i>	Fine-leaved Water Dropwort	by river near Casa
<i>Petroselinum crispum</i>	Flat-leaved Parsley	Loarre Castle
<i>Selinum pyreneaeum</i>	Pyrenean Angelica	
<i>Tordylium apulum</i>	Tordylium	
<i>Torilis arvensis</i>	Spreading Hedge Parsley	
<b>Aquifoliaceae</b>		
<i>Ilex aquifolium</i>	Holly	
<b>Apocynaceae</b>		
<i>Vinca minor</i>	Lesser Periwinkle	garden escape
<i>Vincetoxicum hirundinaria</i>	Swallow-wort	ski-lift day/Somport
<i>Vincetoxicum nigrum</i>	Black Swallow-wort	gorge day
<b>Araliaceae</b>	<b>Ivy Family</b>	
<i>Hedera helix</i>	Ivy	
<b>Asteraceae</b>	<b>Daisy Family</b>	
<i>Achillea millefolium</i>	Yarrow	
<i>Antennaria dioica</i>	Mountain Everlasting/Cat's Foot	
<i>Arctium minus</i>	Lesser Burdock	
<i>Arnica montana</i>	Arnica	
<i>Bellis perennis</i>	Daisy	
<i>Carduncellus mitissimus</i>	Dwarf Blue Thistle	
<i>Carduus carlinoides or pyrenaicus</i>	Pyrenean Thistle	ski lift day

Scientific name	Common name	Location
<i>Carduus crispus</i>	Wetted Thistle	
<i>Carduus defloratus</i>	Alpine Thistle	possibly
<i>Carduus nutans</i>	Musk Thistle	
<i>Carlina acaulis</i>	Stemless Carlina Thistle	Saw one by field church
<i>Carlina acanthifolia</i>	Acanthus-ld Carlina Thistle	R Veral area
<i>Carlina vulgaris</i>	Carlina Thistle	
<i>Carthamus lanatus</i>	Carthamus	
<i>Catananche caerulea</i>	Cupid's Dart	
<i>Centaurea calcitrapa</i>	Red Star-thistle	
<i>Centaurea nigra</i>	Common Knapweed	
<i>Centaurea nemoralis</i>	Lesser Knapweed	
<i>Centaurea montana</i>	Perennial Cornflower	
<i>Cichorium intybus</i>	Chicory	
<i>Cirsium dissectum</i>	Meadow Thistle	
<i>Cirsium eriophorum</i>	Woolly Thistle	
<i>Cirsium palustre</i>	Marsh thistle	
<i>Crepis</i> sp [see last page]	Hawkweeds etc	not specifically identified
<i>Crepis albida</i>	Pyrenean Hawksbeard	
<i>Diploaxis muralis</i>	Annual Wall Rocket	
<i>Doronicum austriacum</i>	Austrian Leopard's-Bane	
<i>Erigeron acer</i>	Blue Fleabane	
<i>Eupatorium cannabinum</i>	Hemp Agrimony	
<i>Galinsoga parviflora</i>	Gallant Soldier	
<i>Helichrysum stoechas</i>	Curry Plant	
<i>Hieracium lanatum</i>	Woolly Hawkweed	
<i>Inula conyzae</i>	Ploughman's Spikenard	in gorge, in bud, yellow showing
<i>Jasonia glutinosa/saxatilis</i>	Rock Tea	
<i>Lactuca serriola</i>	Prickly Lettuce	
<i>Leontodon hispidus</i>	Rough Hawkbit	
<i>Leucanthemum vulgare</i>	Ox-eye Daisy	
<i>Leuzia conifera</i>	Leuzia	
<i>Onopordum acanthium</i>	Cotton Thistle	
<i>Pallenis spinosa</i>	Pallenis	
<i>Picris echioides</i>	Bristly Ox-tongue	
<i>Pilosella officinarum</i>	Mouse-ear Hawkweed	
<i>Prenanthes purpurea</i>	Purple Lettuce	same mntain as Martagon Lily
<i>Pulicaria dysenterica</i>	Common Fleabane	
<i>Santolina chamaecyparissus</i>	Lavender Cotton	
<i>Scolymus hispanicus</i>	Spanish Oyster Plant	
<i>Senecio nemorensis</i>	Ragwort	
<i>Senecio vulgaris</i>	Groundsel	
<i>Silybum marianum</i>	Milk Thistle	
<i>Sonchus</i> sp	a Sow-thistle	
<i>Stachelina dubia</i>	Stachelina	
<i>Tapacetum vulgare</i>	Tansy	
<i>Taraxacum officinale</i>	Dandelion	
<i>Tragopogon pratensis</i>	Goat's-beard	
<i>Tussilago farfara</i>	Colt's-foot	
<i>Volutaria lippii</i>	Volutaria	
<b>Berberidaceae</b>	<b>Barberry Family</b>	
<i>Berberis vulgaris</i>	Barberry	

Scientific name	Common name	Location
<b>Betulaceae</b>	<b>Birch Family</b>	
<i>Alnus glutinosa</i>	Alder	
<i>Betula pendula</i>	Silver Birch	
<i>Corylus avellana</i>	Hazel	
<b>Boraginaceae</b>	<b>Borage Family</b>	
<i>Echium vulgare</i>	Viper's Bugloss	
<i>Myosotis alpestris</i>	Alpine Wood Forget-me-not	
<i>Pulmonaria officianalis</i>	Lungwort	
<b>Brassicaceae</b>	<b>Cabbage Family</b>	
<i>Arabis alpina subsp. caucasica</i>	Alpine Rock-cress	
<i>Arabis turrita</i>	Tower Cress	seedpods only
<i>Capsella bursa-pastoris</i>	Shepherd's Purse	
<i>Lunaria annua</i>	Honesty	dead stalks & seedheads, Berdun
<i>Iberis sempervirens</i>	Evergreen Candytuft	
<i>Iberis stricta</i>	Annual Candytuft	asymmetrical petals [white]
<i>Sisymbrium austriacum</i>	Austrian Rocket	
<i>Sisymbrium tanacetifolia</i>	Tansy Leaved Rocket	
<i>Thlaspi arvense</i>	Field Penny-cress	
<b>Buxaceae</b>	<b>Box Family</b>	
<i>Buxus sempervirens</i>	Box	
<b>Campanulaceae</b>	<b>Bellflower Family</b>	
<i>Campanula patula</i>	Spreading Bellflower	
<i>Campanula persicifolia</i>	Peach-leaved Bellflower	
<i>Campanula rotundifolia</i>	Harebell	
<i>Campanula trachelium</i>	Nettle-leaved Bellflower	
<i>Jasione montana</i>	Mountain Sheep's-bit	
<i>Phyteuma orbiculare</i>	Round-headed Rampion	
<b>Cannabaceae</b>	<b>Hop Family</b>	
<i>Humulus lupulus</i>	Hop	R. Aragon day
<b>Caprifoliaceae</b>	<b>Honeysuckle Family</b>	
<i>Centranthus ruber</i>	Red Valerian	
<i>Dipsacus fullonum</i>	Teasel	
<i>Knautia sp.</i>	A Scabious	
<i>Lonicera etrusca</i>	Etruscan Honeysuckle	
<i>Lonicera periclymenum</i>	Honeysuckle	
<i>Lonicera xylosteum</i>	Fly Honeysuckle	
<i>Scabiosa columbaria</i>	Small Scabious	
<i>Valeriana pyreneicum</i>	Pyrenean Valerian	
<i>Viburnum lantana</i>	Wayfaring Tree	
<b>Carophyllaceae</b>	<b>Pink Family</b>	
<i>Arenaria purpurascens</i>	Pink Sandwort	
<i>Arenaria serpyllifolia</i>	Thyme-leaved Sandwort	
<i>Cerastium arvense</i>	Field Mouse-ear	
<i>Dianthus deltoides</i>	Maiden Pink	
<i>Dianthus pungens ssp. hispanicus</i>		
<i>Minuartia verna</i>	Spring Sandwort	



Scientific name	Common name	Location
<i>Paronychia argentea</i>	Algerian Tea	
<i>Paronychia capitata</i>	Paronychia	
<i>Petrocoptis hispanica</i>	Petrocoptis	
<i>Petrorhagia saxifraga</i>	Tunic Flower	
<i>Saponaria officinalis</i>	Soapwort	
<i>Silene rupestris</i>	Rock Campion	
<i>Silene suecica</i> ( <i>Lychnis alpina</i> )	Alpine Catchfly	
<i>Silene vulgaris</i>	Bladder Campion	
<i>Stellaria media</i>	Common Chickweed	
<b>Celastraceae</b>	<b>Spindle Family</b>	
<i>Parnassia palustris</i>	Grass of Parnassus	
<b>Cistaceae</b>	<b>Rockrose Family</b>	
<i>Cistus crispus/incanus?</i>	Cistus	Loarre Castle car park
<i>Fumana ericoides</i>	Fumana	
<i>Helianthemum apenninum</i>	White Rockrose	
<i>Helianthemum nummularium</i>	Common Rockrose	
<i>H.nummularium</i> subsp. <i>pyrenaicum</i>	Pink Rockrose	
<i>H.oelandicum</i> subsp. <i>incanum</i>	Hoary Rockrose	
<b>Convolvulaceae</b>	<b>Bindweed Family</b>	
<i>Calystegia silvatica</i>	Large Bindweed	
<i>Convolvulus cantabrica</i>	Pink Bindweed	
<i>Cuscuta europaea</i>	Greater Dodder	
<b>Cornaceae</b>	<b>Dogwood Family</b>	
<i>Cornus sanguinea</i>	Common Dogwood	
<b>Crassulaceae</b>	<b>Stonecrop Family</b>	
<i>Jovibarba globifera</i>	Hen and chickens Houseleek	
<i>Sedum acre</i>	Biting Stonecrop	
<i>Sedum rupestre</i>	Large Rock Stonecrop	
<i>Sedum album</i>	White Stonecrop	
<i>Sedum anglicum</i>	English Stonecrop	red leaves
<i>Sedum sediforme</i>	Stonecrop	
<i>Sempervivum cantabrium</i>	Houseleek	
<i>Sempervivum calcareum</i>		
<i>Sempervivum montanum</i>		
<b>Cucurbitaceae</b>	<b>Cucumber Family</b>	
<i>Bryonia dioica</i>	White Bryony	
<i>Ecballium elaterium</i>	Squirting Cucumber	
<b>Ericaceae</b>	<b>Heath Family</b>	
<i>Arbutus unedo</i>	Strawberry Tree	
<i>Arctostaphylos uva-ursi</i>	Bearberry	
<i>Calluna vulgaris</i>	Ling	
<i>Rhododendron ferrugineum</i>	Alpenrose	
<i>Vaccinium myrtillus</i>	Bilberry	
<b>Euphorbiaceae</b>	<b>Spurge Family</b>	
<i>Euphorbia characias</i> subsp. <i>characias</i>	Large Mediterranean Spurge	

Scientific name	Common name	Location
<i>Euphorbia cyparissias</i>	Cypress Spurge	with slender blue-green leaves
<i>Euphorbia helioscopia</i>	Sun Spurge	
<i>Euphorbia myrsinites</i>	Blue spurge	
<i>Euphorbia peplus</i>	Petty Spurge	
<b>Fabaceae</b>	<b>Pea Family</b>	
<i>Albizia julibrissin</i>	Albizia	planted / in a garden
<i>Anthyllis vulneraria subsp. pyrenaica</i>	Pink Kidney Vetch	
<i>Astragalus glycyphyllos</i>	Wild Liquorice	
<i>Astragalus purpureus</i>	Purple Vetch	
<i>Bitumaria bituminosa</i>	Pitch Trefoil	Berdun village
<i>Cercis siliquastrum</i>	Judas Tree	
<i>Colutea arborescens</i>	Bladder Senna	
<i>Echinospartum horridum</i>	Echinospartum	
<i>Genista tinctoria</i>	Dyer's Greenweed	smooth stems; curved pod Julia saw this
<i>Hippocrepis comosa</i>	Horseshoe Vetch	
<i>Lathyrus latifolius</i>	Broad-leaved Everlasting Pea	
<i>Lathyrus pratensis</i>	Meadow Vetchling	
<i>Lotus corniculatus</i>	Bird's Foot Trefoil	"tiny yellow restharrow" Riglos
<i>Lotus alpinus</i>	Alpine Bird's Foot Trefoil	
<i>Medicago lupulina</i>	Black Medick	
<i>Medicago sativa</i>	Lucerne	
<i>Mellilotus altissimus</i>	Tall Melilot	
<i>Mellilotus albus</i>	White Melilot	
<i>Onobrychis pyrenaica</i>	Pyrenean Sainfoin	
<i>Onobrychis viciifolia</i>	Sainfoin	
<i>Ononis fruticosa</i>	Shrubby Restharrow	
<i>Ononis ornithopodioides</i>	Birds-Foot Rest Harrow	
<i>Ononis spinosa</i>	Spiny Restharrow	
<i>Robinia psuedoacacia</i>	Robinia / False Acacia	
<i>Trifolium alpinum</i>	Alpine Clover	
<i>Trifolium campestre</i>	Hop Trefoil	
<i>Trifolium montanum</i>	Mountain Clover	
<i>Trifolium pratense</i>	Red Clover	
<i>Vicia cracca</i>	Tufted Vetch	
<i>Vicia pyrenaica</i>	Pyrenean Vetch	
<i>Vicia villosa</i>	Fodder vetch	
<b>Fagaceae</b>	<b>Oak Family</b>	
<i>Castanea sativa</i>	Sweet Chestnut	
<i>Fagus sylvatica</i>	Beech	
<i>Quercus coccifera</i>	Kermes Oak	
<i>Quercus ilex</i>	Holm Oak	
<i>Quercus faginea</i>	Portuguese Oak	
<b>Gentianaceae</b>	<b>Gentian Family</b>	
<i>Blackstonia perfoliata</i>	Yellow-wort	
<i>Centaurium erythraea</i>	Common Centaury	
<i>Gentiana asclepiadea</i>	Willow Gentian	
<i>Gentiana acaulis / occidentalis</i>	Trumpet Gentian /Pyrenean TG	
<i>Gentiana verna</i>	Spring Gentian	
<i>Gentiana lutea</i>	Great Yellow Gentian	
<i>Gentiana sp.</i>	A short leaved Gentian	

Scientific name	Common name	Location
<i>Gentiana cruciata</i>	Cross Gentian	Julia saw it.
<i>Gentiana nivalis</i> ?	Snow Gentian	
<b>Geraniaceae</b>	<b>Geranium Family</b>	
<i>Geranium pyrenaicum</i>	Hedge Crane's-bill	
<i>Geranium robertianum</i>	Herb Robert	
<i>Geranium pyrenaicum</i>	Pyrenean Crane's-bill	
<b>Hypericaceae</b>	<b>St John's-wort Family</b>	
<i>Hypericum nummularium</i>	Western St John's-wort	
<i>Hypericum perforatum</i>	Perforate St John's-wort	
<b>Lamiaceae</b>	<b>Dead-nettle Family</b>	
<i>Ajuga chamaepitys</i>	Ground Pine	
<i>Ajuga pyramidalis</i>	Pyramidal Bugle	
<i>Ballota nigra</i>	Black Horehound	
<i>Clinopodium (Acinos) alpinum</i>	Alpine Basil-thyme	
<i>Clinopodium vulgare</i>	Wild Basil	
<i>Lamium album</i>	White Deadnettle	
<i>Lamium amplexicaule</i>	Hen-bit	
<i>Lavandula angustifolia</i>	Lavender	
<i>Marrubium vulgare</i>	White Horehound	
<i>Mentha longifolia</i>	Horse Mint	
<i>Origanum vulgare</i>	Marjoram	
<i>Phlomis lychnitis</i>	-	
<i>Prunella laciniata</i>	Cut-leaved Self-heal	
<i>Prunella vulgaris</i>	Self-heal	
<i>Rosmarinus officinalis</i>	Rosemary	
<i>Salvia officinalis</i> ssp. <i>lavandulifolia</i>	a Salvia	
<i>Salvia pratensis</i>	Meadow Clary	
<i>Salvia verbenaca</i>	Wild Clary	
<i>Satureja montana</i>	Winter Savory	
<i>Sideritis hirsuta</i>	-	
<i>Stachys annua</i>	Yellow Woundwort	with white flos
<i>Stachys officinalis</i>	Betony	
<i>Stachys sylvatica</i>	Hedge Woundwort	
<i>Teucrium polium</i> OR <i>chamaedrys</i>	Felty Germander OR Wall G.	Not sure which, or both!
<i>Thymus pulegioides</i>	Large Thyme	
<i>Thymus vulgaris</i>	Perennial Thyme	
<b>Lentibulariaceae</b>	<b>Butterwort Family</b>	
<i>Pinguicula grandiflora</i>	Greater Butterwort	
<i>Pinguicula vulgaris</i>	Common Butterwort	
<b>Linaceae</b>	<b>Flax Family</b>	
<i>Linum bienne</i>	Pale Flax	
<i>Linum catharticum</i>	Purging Flax	
<i>Linum perenne</i>	Perennial Flax	
<i>L. suffruticosum</i> subsp. <i>salsaloides</i>	Pyrenean Flax	
<i>Linum viscosum</i>	Sticky Flax	
<b>Lythraceae</b>		
<i>Lythrum salicaria</i>	Purple Loosestrife	

Scientific name	Common name	Location
<b>Malvaceae</b>		
<i>Hibiscus syriacus</i>	Common Hibiscus	Berdun; planted
<i>Malva alcea</i>	Cut leaved Mallow	
<i>Malva neglecta</i>	Dwarf Mallow	
<i>Malva sylvestris</i>	Common Mallow	
<i>Malva sp</i>	A Mallow	
<i>Tilia vulgaris</i>	Lime [Linden; not citrus!]	
<b>Moraceae</b>	<b>Mulberry Family</b>	
<i>Ficus carica</i>	Fig	Berdun, in a deserted back garden
<i>Morus nigra</i>	Black Mulberry	
<b>Oleaceae</b>	<b>Olive Family</b>	
<i>Fraxinus angustifolia</i>	Narrow-leaved Ash	
<i>Fraxinus excelsior</i>	Ash	
<i>Ligustrum vulgare</i>	Privet	
<i>Olea europaea</i>	Olive	
<b>Onagraceae</b>		
<i>Epilobium anagallidifolium</i>	Alpine Willowherb	
<i>Epilobium hirsutum</i>	Great Willowherb	
<i>Epilobium montanum</i>	Mountain Willowherb	
<b>Orobanchaceae</b>	<b>Broomrape Family</b>	
<i>Bartsia alpina</i>	Alpine Bartsia	high mountains
<i>Euphrasia alpina</i>	Glossy Eyebright	
<i>Melampyrum cristatum</i>	Crested Cow-wheat	seed head only
<i>Melampyrum pratense</i>	Common Cow-wheat	small yellow flos
<i>Orobanche alba</i>	Thyme Broomrape	
<i>Orobanche gracilis</i>	Slender Broomrape	
<i>Orobanche hederaceae</i>	Ivy Broomrape	
<i>Orobanche elatior</i>	Knapweed Broomrape ?	
<i>Orobanche spp</i>		
<i>Pedicularis pyrenaica</i>	Pyrenean Lousewort	stream below Somport
<i>Rhinanthus minor</i>	Yellow Rattle	
<b>Papaveraceae</b>	<b>Poppy Family</b>	
<i>Corydalis solida</i>	Bird-in-a-Bush	veg plot beside Casa!
<i>Fumaria parviflora</i>	Small-flowered Fumitory	
<i>Meconopsis cambrica</i>	Welsh Poppy	
<i>Papaver rhoeas</i>	Field Poppy	
<b>Plantaginaceae</b>	<b>Plantain Family</b>	
<i>Antirrhinum majus</i>	Snapdragon	
<i>Cymbalaria muralis</i>	Ivy-leaved Toadflax	
<i>Digitalis purpurea</i>	Foxglove	
<i>Linaria supina</i>	Pyrenean Toadflax	[yellow flos]
<i>Plantago arenaria</i>	Branched Plantain	
<i>Plantago lanceolata</i>	Ribwort Plantain	
<i>Plantago major</i>	Greater Plantain	
<i>Plantago media</i>	Hoary Plantain	
<i>Veronica aragonensis</i>	Spanish Speedwell	

Scientific name	Common name	Location
<i>Veronica beccabunga</i>	Brooklime	
<i>Veronica chamaedrys</i>	Germander Speedwell	
<i>Veronica montana</i>	Wood Speedwell	
<i>Veronica persica</i>	Common Speedwell	
<b>Plumbaginaceae</b>	<b>Thrift Family</b>	
<i>Armeria alpina</i>	Mountain Thrift	
<b>Polygalaceae</b>	<b>Milkwort Family</b>	
<i>Polygala comosa</i>	Tufted Milkwort	
<i>Polygala nicaeensis</i>	Nice Milkwort	
<i>Polygala vulgaris</i>	Common Milkwort	
<i>Polygala sp</i>	a Milkwort	
<b>Polygonaceae</b>	<b>Dock Family</b>	
<i>Fallopia baldschuanica</i>	Russian Vine	walls of Loarre Castle!
<i>Persicaria viviparum</i>	Alpine Bistort	
<i>Polygonum aviculare</i>	Knotgrass	steps at Casa!
<i>Oxyria digyna</i>	Mountain Sorrel	
<i>Rumex crispus</i>	Curled Dock	
<i>Rumex sanguineus</i>	Red-veined or Wood Dock	
<i>Rumex scutatus</i>	French Sorrel	
<b>Primulaceae</b>	<b>Primrose Family</b>	
<i>Anagallis arvensis</i>	Scarlet Pimpernel	
<i>Anagallis arvensis subsp. foemina</i>	Blue pimpernel	
<i>Androsace villosa</i>		
<i>Androsace vitaliana</i>	Vitaliana	
<i>Coris monspeliensis</i>	Coris	
<i>Primula elatior</i>	Oxlip	seed heads only
<i>Primula farinosa</i>	Bird's-eye Primrose	pink flos
<i>Primula veris</i>	Cowslip	seed heads only
<b>Ranunculaceae</b>	<b>Buttercup Family</b>	
<i>Aquilegia vulgaris</i>	Common Columbine	
<i>Caltha palustris</i>	Marsh Marigold	
<i>Clematis flammula</i> ?	Fragrant Clematis	sweet smell alongside reedbeds!
<i>Clematis vitalba</i>	Traveller's Joy	
<i>Consolida regalis</i>	Forking Larkspur	
<i>Helleborus viridis</i>	Green Hellebore	
<i>Hepatica nobilis</i>	Hepatica	
<i>Nigella arvensis</i>	Love-in-a-mist	
<i>Ranunculus pyrenaicus</i>	Pyrenean Buttercup	white with yellow centre
<b>Resedaceae</b>	<b>Mignonette Family</b>	
<i>Reseda lutea</i>	Wild Mignonette	
<b>Rhamnaceae</b>	<b>Buckthorn Family</b>	
<i>Frangulus alnus</i>	Alder Buckthorn	
<i>Rhamnus alaternus</i>	Mediterranean Buckthorn	
<b>Rosaceae</b>	<b>Rose Family</b>	
<i>Agrimonia eupatoria</i>	Agrimony	

Scientific name	Common name	Location
<i>Alchemilla alpina</i>	Alpine Lady's Mantle	
<i>Alchemilla</i> sp	A Lady's Mantle	
<i>Crataegus mongyma</i>	Hawthorn	
<i>Fragaria vesca</i>	Wild Strawberry	
<i>Geum urbanum</i>	Wood Avens	
<i>Helianthemum appeninum</i>	White Rockrose	
<i>Malus sylvestris</i>	Wild Crab [apple]	
<i>Potentilla crantzii</i>	Alpine Cinquefoil	
<i>Potentilla erecta</i>	Tormentil	
<i>Potentilla reptans</i>	Creeping Cinquefoil	
<i>Potentilla rupestris</i>	Rock Cinquefoil	
<i>Prunus spinosa</i>	Blackthorn	
<i>Rubus fruticosus</i> agg.	Bramble	
<i>Rubus idaeus</i>	Wild Raspberry	
<i>Rosa spinosissima</i>	Burnet Rose	
<i>Rosa rubifolia</i>	Blue-leaved Rose	
<i>Sanguisorba minor</i>	Salad Burnet	
<i>Sorbus aucuparia</i>	Mountain Ash or Rowan	
<b>Rubiaceae</b>	<b>Bedstraw Family</b>	
<i>Cruciata laevipes</i>	Crosswort	
<i>Galium mollugo</i>	Hedge Bedstraw	
<i>Galium odoratum</i>	Woodruff	
<i>Galium verum</i>	Lady's Bedstraw	
<i>Rubia pelegrina</i>	Madder	
<b>Salicaceae</b>	<b>Willow Family</b>	
<i>Populus alba</i>	White Poplar	
<i>Populus nigra</i> var <i>betufoia</i>	Black Poplar	
<i>Populus nigra Italica</i>	Lombardy Poplar	
<i>Populus tremula</i>	Aspen	
<i>Salix purpurea</i>	Purple Osier	blunt-ended leaves
<i>Salix viminalis</i>	Osier	very long, slender leaves
<b>Santalaceae</b>	<b>Sandalwood Family</b>	
<i>Osyris alba</i>	Osyris	
<i>Viscum album</i> subsp <i>austriacum</i>	Mistletoe	
<b>Sapindaceae</b>	<b>Maple Family</b>	
<i>Acer campestre</i>	Field maple	
<i>Acer monspessulanum</i>	Montpelier maple	
<i>Acer platanoides</i>	Plane Tree	planted
<i>Aesculus hippocastanum</i>	Horse Chestnut	
<b>Saxifragaceae</b>	<b>Saxifrage Family</b>	
<i>Saxifraga caespitosa</i>	Tufted Saxifrage	Loarre Castle
<i>Saxifraga exarata</i> subsp <i>moschata</i>	White Musky Saxifrage	
<i>Saxifraga cuneifolia</i>	Spoon leaved Saxifrage	
<i>Saxifraga paniculata</i>	Live-long Saxifrage	
<i>Saxifraga longifolia</i>	Pyrenean Saxifrage	
<b>Scrophulariaceae</b>	<b>Figwort Family</b>	
<i>Scrophularia canina</i>	French Figwort	

Scientific name	Common name	Location
<i>Verbascum nigrum</i>	Dark Mullein	
<i>Verbascum pulverulentum</i>	Hoary Mullein	
<i>Verbascum thapsus</i>	Aaron's Rod	
<b>Solanaceae</b>	<b>Nightshade Family</b>	
<i>Solanum dulcamara</i>	Bittersweet	
<i>Solanum nigra</i>	Black Nightshade	
<b>Thymelaceae</b>	<b>Daphne Family</b>	
<i>Daphne laureola</i>	Spurge Laurel	
<b>Ulmaceae</b>	<b>Elm Family</b>	
<i>Celtis australis</i>	Nettle Tree	
<i>Ulmus glabra</i>	Wych Elm	
<i>Ulmus procera</i> OR <i>canescens</i>	Elm or Mediterranean Elm	
<b>Urticaceae</b>	<b>Nettle Family</b>	
<i>Parietaria judaica</i>	Pellitory-of-the-wall	
<i>Urtica dioica</i>	Common Nettle	
<b>Verbenaceae</b>	<b>Verbena Family</b>	
<i>Verbena officinalis</i>	Vervain	
<b>Violaceae</b>	<b>Violet Family</b>	
<i>Viola pyrenaica</i>	Pyrenean Violet	
<b>Vitaceae</b>	<b>Vine Family</b>	
<i>Vitis vinifera</i>	Wild Grape-vine	
<b>Monocots</b>	<b>Monocotyledons</b>	
<b>Amaryllidaceae</b>	<b>Daffodil Family</b>	
<i>Allium moly</i>	Yellow Garlic	seed head only
<i>Allium oleraceum</i>	Field Garlic	2 long bracts on seed head
<i>Allium paniculatum</i> ?	a Garlic	
<i>Allium sphaerocephalon</i>	Round-headed leek	seed head only
<i>Allium suaveolens</i>	Fragrant Onion	
<i>Allium victorialis</i> / <i>ampeloprasum</i>	Alpine Leek or Wild Leek	seed head only
<i>Allium vineale</i>	Crow Garlic	
<b>Asparagaceae</b>	<b>Asparagus Family</b>	
<i>Agave americana</i>	Century Plant	planted, further south
<i>Asparagus acutifolius</i>	Asparagus	
<i>Asparagus officinalis</i>	Asparagus	
<i>Ruscus aculeatus</i>	Butcher's Broom	
<i>Scilla verna</i>	Spring Squill	
<i>Yucca gloriosa</i>	Yucca	planted
<b>Cyperaceae</b>		
<i>Carex pseudocyperus</i>	Hop Sedge	by stream, below ski lift
<i>Eriophorum sp</i>	A Cotton Grass	
<b>Dioscoreaceae</b>	<b>Yam Family</b>	

Scientific name	Common name	Location
<i>Dioscorea (Tamus) communis</i>	Black Bryony	
<b>Iridaceae</b> <i>Iris xiphioides</i>	<b>Iris Family</b> Pyrenean Iris	
<b>Juncaceae</b> <i>Schoenus nigricans</i>	<b>Rush Family</b> Bog Rush	by stream, below ski lift
<b>Liliaceae</b> <i>Lilium martagon</i>	<b>Lily Family</b> Martagon Lily	
<b>Orchidaceae</b> <i>Anacamptis pyramidalis</i> <i>Dactylorhiza fuschii</i> <i>Dactylorhiza sambucina</i> <i>Gymnadenia conopsea</i> agg. <i>Himantoglossum hircinum</i> <i>Neottia ovata</i> <i>Orchis laxiflora</i> <i>Orchis mascula</i> <i>Orchis palustris</i> <i>Orchis ustulata</i> <i>Plantathera bifolia</i>	<b>Orchid Family</b> Pyramidal Orchid Common Spotted Orchid Elder-flowered Orchid Fragrant Orchid Lizard Orchid Twayblade Lax-flowered Orchid Early Purple Orchid Early Marsh Orchid Burnt Orchid Lesser Butterfly Orchid	both colours - red & yellow  flower dead walk down from Somport
<b>Poaceae</b> <i>Aegilops geniculata</i> <i>Arundo donax</i> <i>Avena fatua / sativa?</i> <i>Briza media</i> <i>Deschampsia caputosa</i> <i>Phragmites australis</i>	<b>Grass Family</b> Aegilops Giant Reed Wild/cultivated oat Quaking Grass Tufted Hair-grass Common Rush	in park by Ebro Old name <i>P. communis</i>
<b>Typhaceae</b> <i>Typha latifolia</i>	<b>Reedmace Family</b> Great Reedmace / Cat's Tail	in park by Ebro
<b>Xanthorrhoeaceae</b> <i>Asphodelus albus</i>	<b>Asphodel Family</b> White Asphodel	seed pods only
<b>Other Trees [not by family]</b> <i>Ailanthus altissima</i> <i>Catalpa bignonioides</i> <i>Juglans regia</i> <i>Punica granatum</i> <i>Tamarix africana [hispanica]</i>	Tree of Heaven Catalpa or Indian Bean Tree Walnut Pomegranate Tamarisk	Berdun   beside Ebro

The layout is in line with current classification; some of the uncertain species have been omitted.