

The Pyrenees

France, Spain, and Andorra

A Greentours Natural History Holiday

6th to 19th June 2016

Led by Paul Cardy

Day 1 Monday 6th June Arrival and Transfer to Cerdagne

Having driven from the south western Alps, and having arrived in Toulouse the previous evening, I met the group at the airport in the morning.

After loading the mini-bus we negotiated the complex road system around Toulouse, and soon we were on the motorway and heading south towards Foix. Black and Red Kites soared overhead and Pyramidal Orchids were a feature of the roadsides. Once past Foix we stopped at a lakeside for our first picnic of baguette, fruit, juice, etc. Here was a lone Bee Orchid, and also Pyramidal Orchid. There followed a quick coffee stop in a nearby town due to popular demand after an early start! After Ax-les-Thermes the scenery became ever more interesting as we wound our way up to the Col de Puymorens. The road over the col was rather busy today, which was strange as the eponymous tunnel below it was indeed open.

Our first botanical stop was made at a roadside with many fine Pyrenean Lilies, an early highlight. They really were in superb flower today and although many were out of reach there were some fine closer examples for photographs. Also here were *Silene rupestris*, robust Spiked Rampion, *Saxifraga paniculata*, Greater Butterfly Orchid, *Rorippa pyrenaica*, *Potentilla rupestris*, and *Aquilegia vulgaris*. Chimney Sweeper and Lead Belle represented the moths.

At the col itself the snow had only very recently gone. Trumpet Gentians bloomed among the *Calluna vulgaris*, and *Anemone nemorosa* was still in flower. *Genista anglica* formed ground cover, and we saw *Lychnis alpina* and *Paronychia polygonifolia*.

Roadside cliffs had Rock Soapwort and Elder-flowered Orchids became common. *Tulipa australis* was still in flower on one rock outcrop, but at a place at which it was impossible for me to stop! Early Purple Orchids were in flower too. Now in the Parc Naturel Régional des Pyrénées Catalanes, a fascinating route down into the valley took us through the small town of Bourg Madame, before we took a minor road up to the village of Valcebollere, our base for the first three nights. Arable fields were full of Cornflowers.

At the last stop Karen and John found a perched Provence Orange Tip on its foodplant *Biscutella valentina*. The scent of Pyrenean Broom filled the air and would be a feature of the tour. The only *Lathyrus nissolia* of the tour was here. Light rain became heavier and prompted us to head purposefully to the hotel.

We settled into the characterful hotel, later enjoying an excellent dinner, and a welcome night's sleep.

Day 2 Tuesday 7th June Segre Gorge, Err-Puigmal, Mt.Louis

After a good breakfast we set out to explore several local sites, now under clear blue skies. Black Redstarts and Crag Martins were prominent in the village and much *Cardamine raphanifolia* flowered beside the stream.

After a shopping stop to stock up on water etc. we drove towards Segre Gorge. The meadows near the car park had *Buglossoides arvensis* but none of the impressive *Adonia aestivalis* seen on our last visit. The rest of the morning was spent walking along the beautiful wooded, mainly granite, gorge.

Achillea chamaemelifolia flowered on rocky outcrops with *Asarina procumbens*. Before too long I spotted the first *Saxifraga media* in perfect flower, being a delicate pink. Later were a few more, but these were white flowered. Also in bloom was the endemic *Saxifraga pubescens*, with the more prosaic *Saxifraga paniculata* and *Saxifraga granulata* abundant. The stately *Molopospermum peloponnesiacum* was a feature of the cliffs, collected in the area as a salad vegetable. *Pulmonaria angustifolia*, *Thesium alpinum*, *Linaria angustissima*, *Laserpitium latifolium*, *Laserpitium nestleri flabellatum*, *Viola pyrenaica*, and *Viola biflora* were among the many other plants. Also on the rocks were Rock Soapwort, *Cardamine resedifolia*, and quite a selection of stonecrops and houseleeks. Among the ferns were *Asplenium septentrionale* and *Asplenium fontanum*.

Three or four Bird's-nest Orchids were just coming into flower and there were some impressive *Orobanche rapum-genistae* parasitising the abundant Pyrenean Broom, with many more yet to fully open. *Silene saxifraga*, *Plantago holosteum*, *Polygonum alpinum* and *Doronicum austriacum* continued the variety and Fly Honeysuckle was in bloom. Diminutive *Hornungia petraea* was found. An odd gall caused *Plantago lanceolata* to produce multiple flower heads.

Provence Orange-tip was again on the wing, as were Glanville Fritillary, Red-underwing Skipper, Wood White, Mazarine Blue, Adonis Blue, de Prunner's Ringlet, and Black-veined Moth. Clouded Apollo was a pleasing find.

Next, a minor road took us up towards the small ski resort of Err-Puigmal, deserted at this season. Here we ate our picnic amid fine alpine scenery, waterfalls cascading down the opposite rock faces. The vegetation was only just waking up, again the snow having only very recently gone. *Saxifraga geranioides* was a highlight, in numerous flower, another local endemic. An interesting find here was the wood rush *Luzula desvauxii*, and there was fine *Primula latifolia*. Chamois was seen as we drove back down.

A rocky meadow near Mont-Louis yielded some very fine *Pulsatilla rubra*, a highlight of the area, and at the same site were *Senecio adonidifolius*, *Tephrosieris helenitis*, *Pulmonaria angustifolia*, *Carex montana*, Moonwort, and very many Crested Louseworts. Spring Gentians bloomed and a great find was two of the eastern Pyrenean endemic umbellifer *Endressia pyrenaica*. A field full of superb Poet's Narcissus here was quite a sight, and indeed was a feature of the area, with many such fields turned creamy white by them. Green Hairstreak was on the wing, and Woodlark sang.

An exploratory drive took us along a road that led up above Mt. Louis towards a lake. At the forest edge was much fine *Euphorbia hyberna*, and wet flushes had much *Pinguicula vulgaris*, *Pedicularis sylvatica*, and the highlight a few *Gentiana pyrenaica*. Citril Finches were here.

Back in Valcebollere we enjoyed another delicious dinner.

Day 3 Wednesday 8th June Val d'Eyne

Another short drive from the hotel took us to the village of Eyne, from which the famous Val d'Eyne winds up to the ridge and the Spanish border, and is a renowned botanical area. The weather was again perfect.

We spent all day walking slowly up the floriferous valley towards the Spanish border. Progress was slow as there was much to see. Lower down were meadows full of Poet's Narcissus, and *Thalictrum aquilegifolium* and *Paradisea liliastrum* were in attractive bloom. Near the start of the track was the purple flowered *Oxytropis halleri*. Blackcaps and Tree Pipits sang, and Great Spotted Woodpecker and Western Bonelli's Warbler were seen. Ascelaphids frequented one slope, where Red-underwing Skipper and Baton Blue were on the wing.

We found a wealth of great things today. Again the strong vanilla scent of Pyrenean Broom filled the air, the cliffs above being extensively deep yellow with it. There were many Great Yellow Gentians in leaf, and the Cowslips here were still in flower. Ferns included Brittle Bladder Fern and Black Spleenwort.

Entering coniferous woodland Alpenrose was commonly in leaf, *Pyrola minor* was in flower, and *Helleborus viridis* was common. Wet flushes had much Marsh Marigold, and the attractive *Cardamine asarifolia* in flower. Meadow Saxifrage was numerous, and more unusual was again the endemic *Saxifraga geranioides*. Hepatica still had a few flowers, and there were some very fine yellow *Pulsatilla alpina*. We continued our beautiful slow walk up the valley, adding *Iberis sempervirens*, Rock Redcurrant, and Alpine Honeysuckle. *Saxifraga bryoides* was in bud, as was Pyrenean Lily. *Corydalis solida*, abundantly in flower on our last visit here, had almost all gone over, although it was seen in flower by John. Several Clouded Apollos flew in the valley, for which the *Corydalis* is the foodplant. Provençal and Meadow Fritillary were both here. Crag Martins sped along the valley and in the conifers were Crested Tits, Coal Tits, and Goldcrests.

The sun brought out a few more butterflies including Orange-tip, Green-veined White, Pearl-bordered Fritillary, Weaver's Fritillary, and a few Duke of Burgundys. Frosted Yellow, a moth extinct in Britain, was associated with the broom. On my last visit here I had been very pleased to find Violet Copper in the valley, but intense searching failed to re-locate it along our walk today, although later in the day we would indeed see it!

Strolling up a little further the higher slopes revealed some simply superb things. *Adonis pyreniaca* was the real highlight, becoming ever more common as clumps of its large striking yellow blooms became numerous. The local *Plantago monosperma* was a special find and there were a number of *Gentiana pyrenaica* and *Linum alpinum*. Trumpet Gentian was common on several slopes, *Erysimum duriaei pyrenaicum* was attractive, *Primula integrifolia* was just still flower beside the wet runnels, and in the water were mounds of flowering *Montia fontana*.

De Prunner's Ringlet was on the wing. We ate lunch in fine surroundings, the contents of the picnic studiously photographed by Franz, and then began the gentle walk back down the valley. It was now quite busy up here, mostly with French walking groups, but John met some Norwegians who recognised him from a botanical lecture he had given them in Oslo!

Nearly back at the vehicle, I was delighted to find Bog Fritillary, a scarce butterfly. Many years ago, indeed last century (the 20th that is), we used to see the species at another site on this tour, but had not recorded it for many tours now. It was great to see it after so many years. A bonus came as having directed Karen and John towards the fritillary, they instead found a perfect male Violet Copper! Both these rare species have the same foodplant, Bistort. The Bog Fritillary was flying around restlessly but we did not see it stop again.

That evening we met for a first run through the many plants we had already seen before moving on to a new area tomorrow.

**Day 4 Thursday 9th June Valcebollere, Puymorens, Andorra, Seu
d'Urgell, Col de Canto, La Guingeta**

Again driving over the Col de Puymorens, we crossed into Andorra and negotiated the horrendous small ski town and duty free centre of Pas de la Casa, and headed above it to fine alpine slopes. There were Narcissus-flowered Anemones on the roadsides. A short first stop yielded *Sesamoides clusii*, *Linaria alpina*, and *Pedicularia pyrenaica*, and Green Hairstreak. The distinctive moth *Psodos quadrifaria*, black with an orange patch on each wing, was here.

It was the next site that offered a fine flora. The slopes of the Port d'Envalira were pink here and there with superb *Androsace carnea laggeri*, and there was much *Ranunculus pyrenaicus*. Creeping Azalea was in abundant flower this year. *Geum montanum*, *Lychnis alpina* and *Pulsatilla vernalis* were in bloom, although the *Erigeron uniflorus* was in leaf. *Narcissus pallidiflorus* bloomed on roadsides. Mountain Dappled White was recorded.

Our journey continued through Andorra, the scenery and flora beautiful, the settlements at best ugly and at worst absolutely monstrous. We took a detour along a road much more attractive than the main one. Here we found a suitable new spot for the picnic, my intended site now being a roadworks equipment store! This had been a site for *Globularia cordifolia*, *Daphne cneorum*, and most notably *Saxifraga media* so hopefully they will survive the disturbance.

Crossing into Spain the architecture changed rather markedly. At the first stop new plants came thick and fast at a Mediterranean influenced site. Among the *Quercus faginea* scrub were *Convolvulus cantabrica*, *Herniaria glabra*, and *Vicia lutea*, and *Telephium imperati* was a good find. Spanish Swallowtail, Bath White, Southern White Admiral, and Spanish Gatekeeper were among the butterflies.

Cistus laurifolius bloomed on the roadsides and a stop was made for impressive *Orobanche rapumgenistae*. We had a rather lengthy roadwork stop at the otherwise deserted Col de Canto, where a friendly stop/go man seemed pleased to see a vehicle!

After another series of impressive hairpins we reached the Noguera Palaresa valley and followed the rushing river up through Llavorsi and to the village of La Guingeta where our hotel was

situated. A relatively new base for us after many years of coming to the area, I had found this beautiful, recently renovated, hotel a few years ago, and it's a delightful place to stay, in a perfect location, with lovely and helpful staff, superb rooms, and delicious high quality food.

Day 5 Friday 10th June Tor

A short drive took us to Alins from where we took the narrow road that eventually leads up to Andorra, via the isolated tiny village of Tor. The Tor road used to be very rough indeed, but the lower part of it is now paved, and the upper parts are much improved. This is a renowned smuggler's route from Andorra, as the upper part of the road is wild and difficult, and hard to monitor, although as usual we met a police car patrolling the road.

Our first stop was to try to re-locate *Botrychium matricariifolium*, of which I had first found two plants at the site several years ago. This apparently had been a new record for Lerida province and became only the second known site in Spain. We had to spend some time searching today, and it was John who finally came up trumps and found one plant, a very pleasing start to the day.

A second stop in a small gorge yielded much *Saxifraga paniculata* in fine flower, *Asplenium fontanum*, *Silene saxifraga*, *Linaria supina* and Large Mediterranean Spurge. The rocks all along the valley were splashed yellow with Pyrenean Broom.

The next stop was beside a sloping meadow where rocks boasted a fine flora with *Dipcadi serotinum*, *Silene legionensis*, St. Bernard's Lilies, Cobweb Houseleeks, and *Potentilla rupestris*. Carthusian Pink, *Vicia onobrychoides*, *Viola tricolor* and Common Columbine were among the species in the meadows, and Blue Lettuce was in fine flower. Both *Scleranthus annuus* and *Scleranthus perennis* were here, the latter in the endemic subspecies *polycnemoides*. One boulder had the endemic Andorran Milfoil. Apollo and Sooty Copper were flying, and Western Whip Snake was seen briefly.

The upper meadows had several Burnt-tip Orchids and Bug Orchids, with Bird's-nest Orchid under the trees. Glanville Fritillaries flew in the meadow and another sitting Apollo was much photographed. John found a Slow Worm.

Driving through the very isolated village of Tor we parked just above the settlement and continued on foot. Before setting out we ate lunch, as it was now raining, but as expected this soon passed and we enjoyed a dry walk. In this fine open landscape of expansive alpine pastures we were almost alone apart from the very occasional 4WD. Wet flushes had many Verticillate Louseworts among the *Carex paniculata* tussocks. There were several Little Blues, and Queen-of-Spain Fritillary. We walked as far as the gully where the river crosses the track. Raven and Citril Finch were among the birds, there was much Golden Cinquefoil, and both *Saxifraga aquatica* and *Saxifraga clusii* were found.

Among other butterflies seen today were Long-tailed Blue, Provençal Short-tailed Blue, Osiris Blue, Baton Blue, Geranium Argus, Camberwell Beauty, Provençal Fritillary, and Tufted Marbled Skipper.

Day 6

Saturday 11th June

Col de Perbes, Pont de Suert, and Montanana

A fine morning saw us heading for lower altitudes, and the Col de Perbes, via La Pobla de Segur. The journey took a little over an hour and once at the Col we spent the rest of the morning exploring this wonderful place. As we approached the roadsides became very floriferous with species that we would see commonly once on foot at the Col.

Here the slopes of budejal or box scrub supported a wealth of flowers. Pink Rockroses, and the small yellow flowered *Helianthemum canum* and *Fumana procumbens* were in fine flower among the very spiky *Echinopartum horridum*. There were blue patches of *Globularia repens* and *Globularia cordifolia*, and pink splashes of *Anthyllis montana*. The blue *Linum narbonense* was particularly fine and the Mt.Cenis Restharrow was beautiful. *Brimeura amethystina* was rather common. Hilary found *Thalictrum tuberosum* at a new site for us for this attractive meadow rue. Among the many other species were *Astragalus purpureus*, *Bupleurum baldense*, *Teucrium pyrenaicum*, *Sideritis hirsuta*, and *Trinia glauca*. Fly and Bee Orchids, and the only Lesser Butterfly Orchid of the tour were all here.

Dartford Warblers skulked in the bushes, and Woodlarks performed display flights. Quail called. Western Dappled White, Mazarine Blue, Adonis Blue, and Safflower Skipper were among the butterflies, and the highlight, and one of the tour, was a Chequered Blue in fine condition.

The views around were really special too, of verdant valleys, mountain villages, and snow-capped peaks. The pond near the mini-bus had several Iberian Water Frogs that leapt in as soon as we approached, and *Libellula depressa*. In the turf nearby were some very small adderstongue ferns, *Ophioglossum azoricum*.

After a short drive a roadside stop yielded some superb spikes of the endemic *Campanula speciosa*.

Lunch was eaten at a welcome shady streamside spot. The woods nearby yielded a good selection of orchids. The highlight was eight superb spikes of Violet Limodore, but also here were White Helleborine, Sword-leaved Helleborine, Broad-leaved Helleborine, Greater Butterfly Orchid, and Common Twayblade. *Campanula persicifolia* was added to the list and Speckled Wood flew under the trees.

The road took now us in and out of Catalunya and Aragon as we headed for Montanana. A cliff stop near one of the tunnels produced superb *Saxifraga longifolia* and an endemic peony subspecies, *Paeonia officinalis microcarpa*, in fruit.

Another minor road took us towards Tremp and along here we found some superb Mediterranean influenced habitat with a wealth of new plants. Among them were *Euphorbia serrata*, *Aphyllanthes monspeliensis*, *Argyrolobium zanonii*, *Dorycnium pentaphyllum*, *Orlaya grandiflora*, *Lithodora fruticosa*, *Teucrium montanum*, *Prunella laciniata*, *Convolvulus cantabrica*, *Inula montana*, *Phlomis lychnitis*, and *Bupleurum falcatum*. *Leuzea conifera* was as always impressive. There were some fine grasses too including *Aegilops geniculata*, *Stipa pennata*, *Koeleria vallesiaca*, and *Melica ciliata*. Some very robust *Orobanche gracilis* flowered in the shade. A good find was Woodcock Orchid, *Gladiolus illyricus* and *Ornithogalum narbonense* were both here, and *Lomelosia pulsatilloides macropoda* was in flower.

Among the butterflies were both Ilex and False Ilex Hairstreaks, Blue-spot Hairstreak, and Spotted Fritillary. Corn Buntings sang continuously. Among the other butterflies noted today were

Spanish Swallowtail (*feisthamelii* Scarce Swallowtail now generally split as a full species), Black-veined White, Orange-tip, and Cleopatra.

Over a large municipal rubbish dump soared Griffons, Egyptian Vulture, and Black Kites. In flower here were *Coris monspeliensis* and *Ononis tridentata angustifolia*.

Day 7 Sunday 12th June Port de la Bonaigua and Vielha Tunnel

A cool day saw us heading up to higher altitudes, initially the Port de la Bonaigua not far above the hotel. At something over 2,000m it was very cold here today. Wandering away from the car park we had the pass almost completely to ourselves. The site was a remarkable contrast to those visited the previous day and it is this great variety of habitats at such a range of altitude that provides such a rich flora and fauna on this tour.

From the vehicle it seemed there would be little in flower, but as usual up here as soon as we reached the first open turf many fine flowers were revealed. *Daphne cneorum* was in fine flower, with its strong scent. There was much *Androsace carnea*, and *Ranunculus pyrenaicus* provided splashes of white. *Erythronium dens-canis* was all in fruit here this year. *Meum athamanticum*, *Lychnis alpina*, *Pritzelago alpina*, *Potentilla aurea*, and *Pulsatilla vernalis* were all in flower, as were a few Alpine Snowbells. One bank had much *Vitaliana primuliflora* and a few *Gagea fistulosa* were found by snow melt.

Water Pipits and Wheatears were the typical birds of this habitat, and there were many Alpine Choughs over the ridges.

It was time to leave this fine site, and drive down through the verdant Val d'Aran to Vielha. The scenery was sublime. From there we took the Vielha tunnel stopping at another superb flower rich site. This really was an excellent botanical stop and it was difficult to show everything to all the group, spread out as they were avidly photographing the wealth of flowers. Orchids were a feature, among them Fragrant Orchids, *Dactylorhiza maculata*, *Dactylorhiza caramulensis*, Elder-flowered Orchids, and most notably some fine Black Vanilla Orchids. Drier turf had many robust Moonworts.

The wet flushes down by the stream were particularly productive. Here were both *Pinguicula vulgaris* and *Pinguicula grandiflora*, Tofield's Asphodel, *Primula farinosa*, *Saxifraga stellaris*, *Pedicularis sylvatica*, *Drosera rotundifolia* and *Bartsia alpina*. A great selection of sedges included *Carex hostiana*, *Carex lepidocarpa*, *Carex pallescens*, *Carex montana*, *Carex panicea*, *Carex pulicaris*, *Carex leporina*, *Carex echinata*, and *Carex davalliana*. The weather was too cold for much butterfly activity, but de Prunner's Ringlet was seen.

I drove further down the valley to find some warmth, and the Col de Espina, a new site for us, was an ideal site for the picnic.

After lunch, enjoyed in this superb habitat, we drove back to the tunnel entrance and walked another track. Above us stretched beech forest on the slopes of Pic d'Aneto. *Pedicularis foliosa* and *Pedicularis mixta* were both in flower. *Senecio doronicum* and *Arnica montana* were here, and *Viola cornuta* was in fine form. By the rushing stream were Welsh Poppies, and *Veronica ponnae*.

It was time to make the journey home, back over the Port de la Bonaigua, reflecting on what a very productive day it had been.

Day 8 Monday 13th June Aigues Tortes National Park

Today we set out for the adjacent village of Espot, and Aigues Tortes National Park, only some twenty minute drive from the hotel. Once in Espot we parked and I organised the landrover taxi that would take us up to the alpine lake of Ratera. The road is now paved as far as the lower lake, St.Maurici, but thereafter the road is still fairly rough, although that has been much improved too since our first visits here. The weather was very changeable this morning and initially it was pretty cold. Light rain was a feature but this did not stop us and by lunch time the sun was even shining to give a very different afternoon. Red Squirrel scampered across the road as we drove up.

The scenery was beautiful. A feature of our last visit here had been the vast amount of snow still covering much of the park. Then the park had been mostly white. Indeed for the first time in eighteen years we had been unable to reach the upper lake in the landrover, having to stop somewhat short due to the snow blocked road. We had set out on foot and were immediately walking across the snow, it lining the road to the lake. The snow capped peaks all around were sublime against the blue sky. This year however things were more normal, with a very few tiny snow patches still, and most of the turf already exposed.

On the shores of the upper lake there was much *Primula integrifolia* in superb flower, a few of both colours or subspecies of *Pulsatilla alpina* were in bloom, *Viola palustris* was here, and the aromatic *Meum athamanticum* was common. Snowbells were in fine form. There were also *Murbeckiella pinnatifida*, *Sesamoides clusii*, and some lovely *Pulsatilla vernalis*. A pair of Mallard seemed rather incongruous and in the lake were a few fish (species?).

We set out to walk a little higher, up to a mirador that provides fine views of the surrounding peaks. At the viewpoint we admired the extremely impressive Enchanted Mountains and had fine views down to St.Maurici that we would reach later. I was delighted to find several flowering rosettes of *Androsace vandellii* in fine flower, in fact eighteen of them today, some very floriferous. Here also were *Saxifraga pubescens*, *Sorbus chamaemespilus*, Bearberry, and *Globularia nudicaulis*.

Coal Tits and Crested Tits were active in the conifers. A short walk took us to an impressive waterfall. *Allium victorialis* was in bud, Pink Barren Strawberry and Trumpet Gentians were in flower, and *Ranunculus amplexicaulis* was rather common. Wet flushes had Starry Saxifrage and Water Saxifrage. Garland Flower was in fine bloom. Near a ruined monastery were *Ribes alpinum* and *Ribes petraeum*, and the white flowered *Ranunculus platanifolius*. Butterflies were almost non-existent on what is usually a good day for them, with only Small Tortoiseshell, Dingy Skipper, and Pearl-bordered Fritillary being seen.

Back at the lower lake we regained a landrover taxi for the journey back to Espot where there was time for a coffee and a little souvenir shopping before heading back to the hotel after another extremely enjoyable and productive day in Aigues Tortes.

Day 9

Tuesday 14th June

Collegats, Salas, and Tremp

Something different today as we headed down from the high passes to the mixed Mediterranean and alpine influences around Salas, Santa Engracia, and Tremp.

Our first stop was to walk the impressive Collegats Gorge along a disused part of the old road, now replaced by one of several tunnels, towards the weird and wonderful rock formations that are known locally as 'Gaudi's Inspiration'. This place really does have a similarity to some of his façades in Barcelona. The flora along here was superb, with *Ramonda myconi* in flower, and the endemic *Sarcocapnos enneaphylla*, a delicate fumitory. I was pleased to find *Vincetoxicum nigrum* growing with the much more common white-flowered species. There was also much *Saxifraga longifolia* on the cliffs. *Thymelaea calycina* was in leaf, and the attractive small red flowered *Galium maritimum* was new for the list. *Orobanche hederæ* parasitised ivy. Maidenhair Fern flourished on the wet stone formations of Gaudi's Inspiration. Crag Martins were much in evidence. Other plants included *Blackstonia perfoliata*, *Antirrhinum molle*, *Digitalis lutea*, *Lactuca perennis*, and *Campanula hispanica*. It was great to see two more Chequered Blues here, a species that Karen and John had missed at Perbes. Berger's Clouded Yellow was here too. Melodious Warbler sang and Subalpine Warbler was seen. Viperine Snake frequented the small pond.

Our next scheduled stop was in an area of Mediterranean influenced oak woodland near Salas where Nightingale and Golden Oriole sang continuously. A streamside produced a very fine selection of orchids, with many superb Red Helleborines, *Epipactis helleborine* (in bud), *Epipactis microphylla*, Fragrant Orchids, very robust *Dactylorhiza elata*, Bee Orchid, Woodcock Orchid, Common Twayblade, and Violet Limodore (going over). Plants continued with *Fumana ericoides*, Round-headed Club Rush, *Dorycnium hirsutum*, *Dorycnium pentaphyllum*, and tall *Lysimachia ephemerum* was in bud. It was pleasing to find *Aristolochia pistolochia* and *Thymelaea sanamunda*.

Short-tailed Blue, Nettle-tree Butterfly, and Weaver's Fritillary were flying, and Marbled Fritillary nectared on brambles. *Rosa stylosa* was in amazingly impressive flower, many bushes absolutely covered in large white blooms.

Lunch was eaten at another site nearby where Marsh Fritillary and Dusky Heath were on the wing, and in flower were *Catananche caerulea*, *Coris monspeliensis*, much Dropwort, and *Linum viscosum*. Also in the area were *Lomelosia stellata* with its impressive papery fruits, *Polycnemum arvense*, and *Plantago albicans*.

Near Tremp a previously very productive butterfly site had been fenced and sanitised but we did nevertheless see the hoped for Spanish Purple Hairstreak here. There were also some very tall Spanish Catchflies.

A stop at a nearby refuse tip allowed close views of soaring Griffons, Egyptian Vulture, and Black Kite.

**Day 10 Wednesday 15th June La Guingeta, Portillon, Peyresourde,
Rioumajou, Neouvielle, Arreau**

Today we left La Guingeta, saying farewell to all at the Poldo, who had been so friendly and helpful during our stay. We drove back over Bonaigua, through the Val d'Aran, and entered France at the Col de Portillon where we saw Sanicle in flower.

Our journey took us through fine wooded habitat, to Bagneres, where we started the climb up to Peyresourde, again above the tree line. Here I guarded the vehicle, full of our luggage, whilst everyone had a short walk, finding amongst other things Chequered Skipper, *Euphorbia flavicoma*, and *Scilla verna*.

Driving past Arreau, and along the Nest d'Aure valley, we took a very minor road up the Rioumajou valley. We parked at a beautiful forested riverside where the display of *Ramonda myconi* on boulders had to be seen to be believed, it really was in fine form. There was much *Saxifraga umbrosa*, butterwort in flower, and Dusky Cranesbill. Also at the forest edge were *Pyrola media*, *Doronicum pardalianches*, *Lysimachia nemorum*, *Scrophularia pyrenaica*, *Vicia pyrenaica*, *Erinus alpinus* and the endemic *Veronica ponae*. In the roadside streamlet we found larvae of Fire Salamander, and a recently emerged Golden-ringed Dragonfly was admired.

Next we took another valley into Neouvielle Natural Park where a beautiful road took us all the way up to the Lac du Cap du Long, above which towered the Neouvielle massive itself. *Primula hirsuta* was in fine flower, with more Alpine Snowbells by snow melt, and diminutive *Sibbaldia procumbens*. Lower down a grassy clearing had Clouded Apollo and Purple-edged Copper.

Late in the afternoon we returned to Arreau where we settled into our refurbished hotel with time to stroll around the pleasant town. Karen and John added Ringlet to the butterfly list. Red Kite was much in evidence here.

Dinner was excellent.

Day 11 Thursday 16th June Col d'Aspin, Tourmalet, Gavarnie, Ossoue

Before we left there was another opportunity to explore the interesting small town of Arreau, in which it was market day. Once the mini-bus was loaded I made a short stop at the post office, and then we headed west.

The winding road up to the Col d'Aspin had the usual cyclists making the ascent. We made a short stop at the col for the views. A stop lower down yielded *Eryngium bourgatii* in flower, but the *Dianthus monspessulanus* at this site was not yet blooming this year.

We began the long drive up to Tourmalet where we stopped to explore the slopes where snow had only just gone. Snow Finch was very tame here. A side road had *Cicerbita plumieri* and *Saxifraga hirsuta*, Karen found a Grass Snake, and John found *Cochlearia pyrenaica*.

Lunch was set out at a beautiful site by the river, where I made use of a convenient wall to display the contents of the full Greentours picnic.

In the afternoon we continued towards Gavarnie, through attractive villages and small towns, and beautiful rural France. There was time to explore a little before heading to the hotel and we made a first visit to the Ossoue Valley. *Lonicera pyrenaica* was in impressive flower, and there were several more Burnt-tip Orchids. On boulders were *Aster alpinus* and more fine Ramonda. *Crepis biennis* was identified, and Turquoise Blue was on the wing.

I drove up another valley to a rushing mountain stream where I usually find Pyrenean Brook Salamander (or Newt). Standing in the stream and turning over a few stones I soon located one of these fascinating endemics, holding it in my hand to show everyone, and, making sure to keep it doused in water, we all had a close look at it, and its striking orange underside. Surely one of the trip highlights. Here was much attractive *Potentilla montana* in flower and Small Elephant Hawk was a bonus. Marmots were much in evidence in the area.

Golden Eagle was seen today.

We settled into our characterful hotel in Gavarnie, the stunning cirque an imposing presence, the views being superb even from the village.

Day 12 Friday 17th June Cirque du Gavarnie, Ossoue Valley

We awoke to superb clear skies, with already fine views of the cirque, and an absolutely ideal day for our morning walk towards it. We drove through the village and parked above it before setting out on foot. Lower down meadows had pink *Pimpinella major*, and robust *Viola cornuta*. Boulders had *Saxifraga intricata* and in woodland was *Scilla lilio-hyacinthus* in fruit. Fine views of the wonder that is the Cirque du Gavarnie continued as we got ever closer. I had expected little wildlife wise on what was mainly a purposeful scenic walk, but soon came the first of several surprises, a fine clump of Edelweiss, new for the tour! Next was *Arenaria purpurascens* in fine condition and then a Chamois ran across the open slopes. Crossbills fed in the pines. *Geum pyrenaicum* was in fine form and *Ranunculus gouanii*, *Pinguicula grandiflora*, and *Salix pyrenaica* were among the many other plants. Having reached the refuge that was our destination, we had close stunning views of the cirque and its impressive waterfalls.

Meeting up with John and Karen who had spent the morning in the Ossoue valley, we drove higher up that valley to the marshy pastures full of Broad-leaved Marsh Orchids. Sadly the rain came just in time for lunch and this was a cold wet affair, although I set the picnic out in the back of the van and made a roof from the shelves to give us some shelter!

Fortunately the rain lasted only for lunch and in the afternoon we again enjoyed fine weather. We set out on foot down the road, very quiet today. So many flowers were seen that it is difficult to list them here. Fragrant Orchid, Sword-leaved Helleborine, and Early Purple Orchid were all in good flower. *Narcissus requienii* was in fruit this year. *Globularia nudicaulis* and *Asperula hirta* bloomed and there were many leaves of *Iris latifolia*. *Thymelaea tinctoria* was rather common and *Lonicera pyrenaica* was again in impressive flower. *Androsace villosa* was a highlight. *Crepis albida*, *Chaenorhinum origanifolium*, *Linaria supina*, *Iberis amara*, *Reseda glauca*, *Helianthemum apenninum*, and *Epilobium alsinifolium* were all here, and *Dethawia tenuifolia* was in leaf. A single cushion of *Saxifraga aretioides* was new for the tour, but had gone over. The highlight was surely two plants of

the yellow flowered *Saponaria bellidifolia*. Never before seen on the tour, Gavarnie is apparently one of just two sites for this rare species in the Pyrenees, the other being in the Val d'Aran.

Piedmont Ringlet and Lefebvre's Ringlet were on the wing, Yellowhammer sang in Ossoue, and Lammergeier had been seen earlier in the day.

Day 13 Saturday 18th June Col de Tentes, Cirque de Troumouse, to Toulouse

After picnic shopping, and having loaded our luggage and said farewell to Roselyne and Bernard, we set off towards the Col de Tentes, not far from Gavarnie. We had awoken to low cloud and light rain, and as we climbed to over 2,000m this turned to snow. There were also still several late lying snow patches, there was a new dusting too, and it was snowing on us, even becoming rather heavy! Our stops up here were rather short due to the intense cold!

The Pyrenean Thistle was already in flower, and we found several cushions of *Saxifraga intricata*. The highlight was superb *Primula hirsuta*, with snow on it, amid slopes of beautiful frosted fescues. A little lower was a calcareous outcrop where we again braved the cold and snow and found *Draba aizoides*, *Silene acaulis*, *Gentiana alpina*, and *Saxifraga oppositifolia* still in flower. Birds typical of southern European alpine pastures were Alpine Chough, Black Redstart, Wheatear and Water Pipit. As we headed down, past David the Pyrenean Brook Newt's home, Griffons soared at eye level.

Next we headed up another beautiful minor road towards the Cirque de Troumouse. The weather was still adverse and the first stop was very cold indeed. However as usual this braided river valley produced some fine plants, *Iberis spathulata*, *Pritzelago alpina*, and *Viola biflora* among them. A highlight was *Geranium cinereum* in fine flower on boulders. There was much *Coincya monensis cheiranthos*, floriferous *Galium caespitosum*, *Crepis pygmaea*, and fine *Saxifraga pubescens*. *Potentilla nivalis* was new for the tour. The clouds even cleared to give views of this part of the cirque with its impressive tall narrow waterfalls.

We drove a little further up via a series of hairpins to the end of the road. Parsley Fern grew on roadside scree. Here a short walk across alpine grassland produced *Gentiana alpina*, much *Androsace carnea*, and in the stream a pair of Pyrenean Brook Newts. Sadly here the clouds did not clear to reveal the fine vista of the Cirque de Troumouse all around.

Lunch was set out at a quiet spot back down the valley, where John found some interesting plants under the trees. There were fine *Cephalanthera longifolia* and *Cephalanthera damasonium*, *Angelica razulii*, and *Orthilia secunda* and *Pyrola minor*. There was much *Vicia orobus* on the verges, and on the cliffs above the last *Saxifraga longifolia* of the tour.

Meanwhile Karen and John had stayed lower in the valley and seen a selection of butterflies including Chequered Skipper and Purple-edged Copper.

All that remained was to motor purposefully to Toulouse. The journey went very well and we arrived late afternoon and settled into the conveniently situated airport hotel. That evening we made a last run through the now extensive checklists. Dinner was entertaining, but OK in the end,

and there followed kind speeches of appreciation of what an extremely enjoyable tour we'd had and just how much we had seen.

Day 14 Sunday 19th June Departure

I ferried the group to the airport where we said our sad farewells, and then I set off east towards the Alps, calling in at home before continuing to Venice to meet the Dolomites group.

Pyrenees Systematic Lists 2016

Compiled by Paul Cardy

Itinerary

Day 1. Monday 6th June:- Arrival, Toulouse to Valcebollere via Puymorens

Day 2. Tuesday 7th June:- Segre Gorge, Err-Puigmal, Mt.Louis area

Day 3. Wednesday 8th June:- Val d'Eyne

Day 4. Thursday 9th June:- Valcebollere, Puymorens, ANDORRA, Envalira, SPAIN, Seu d'Urgell, Col del Canto, La Guingeta d'Aneu

Day 5. Friday 10th June:- Alins, Tor

Day 6. Saturday 11th June:- Col de Perbes, Pont de Suert, Aragon, Montanana road

Day 7. Sunday 12th June:- Bonaigua, Vielha

Day 8. Monday 13th June:- Aigues Tortes National Park

Day 9. Tuesday 14th June:- Collegats, Salas, Tremp area

Day 10. Wednesday 15th June:- Portillon, Peyresourde, Rioumajou, Neouvielle, Arreau

Day 11. Thursday 16th June:- Arreau, via Col d'Aspin, Tourmalet, Luz St.Sauveur, to Gavarnie, Ossoue

Day 12. Friday 17th June:- Cirque de Gavarnie, Ossoue

Day 13. Saturday 18th June:- Col de Tentes, Troumouse valley and cirque, to Toulouse

Day 14. Sunday 19th June:- Departure

Systematic List Number 1 Plants

The taxonomy is based on various works, but mainly Flora Europaea; the 21 published volumes of Flora Iberica; and 'La Grande Flore Illustrée des Pyrénées' by Marcel Saule, 2002. This list has continued to grow and to be added to over the last 20 years or so of our Pyrenees tours. Several species were added to the list in 2016 and are thus annotated. A few species recorded in previous years, but not this year, are annotated with the year in which they were last recorded.

Lycopodiaceae

Huperzia selago - Fir Clubmoss - Rocks along Cirque de Gavarnie track, 2012

Selaginellaceae

Selaginella selaginoides - Lesser Clubmoss - Vielha

Equisetaceae

Equisetum arvense - Common Horsetail - Scattered records, e.g. Segre

[Regular whorls of branches and sheaths with 6-12 teeth]

Equisetum fluviatile - Water Horsetail - Pont de Suert, Segre

Equisetum hyemale - Rough Horsetail - Val d'Eyne, and Vielha

Equisetum palustre - Marsh Horsetail - France

Equisetum telmateia - Giant Horsetail - Salas

[Robust whitish stems, regular whorls and sheaths with 20-30 teeth]

Equisetum variegatum - Variegated Horsetail - Vielha

Ophioglossaceae

Botrychium lunaria - Moonwort - numerous at Vielha tunnel, Mont-Louis, Val d'Eyne, Ossoue

[Forked frond: sterile 1-pinnate (moon-shaped segments) and fertile like grapes]

Botrychium matricariifolium - 2010: 2 above Alins. Apparently a new record for Lerida province, and only the second record for Spain. Could not re-locate in 2011 or 2012.

2013 and 2016, one plant found at the same site.

Ophioglossum azoricum - Small Adder's-tongue Fern - Perbes, c.10, particularly small examples

Cryptogrammaceae

Cryptogramma crispa - Parsley Fern - road to Cirque de Troumouse

[Low dimorphic 3-pinnate fern, resembling parsley]

Adiantaceae

Adiantum capillus-veneris - Maidenhair Fern - Pont de Suert

Blechnaceae

Blechnum spicant - Hard Fern - Gavarnie area

Polypodiaceae

Polypodium cambricum - Southern Polypody - Tor

Polypodium vulgare - Common Polypody - widespread

[Small-medium singly pinnate, outline lanceolate]

Hypolepidaceae

Pteridium aquilinum - Bracken - woodland edges and upland edges
[Familiar tall branched fern]

Aspleniaceae

Asplenium adiantum-nigrum - Black Spleenwort - Sheltered rocks, e.g. Segre, Eyne, Tor road and Vielha
[Small 2-3 pinnate leathery fern]

Asplenium ruta-muraria - Wall-rue - Gavarnie area, Collegats
[Small dark green 2-pinnate tufted fern, diamond-shaped segments]

Asplenium septentrionale - Forked Spleenwort - scattered records on acid rocks, e.g. Tor road, Rioumajou, Segre, Aigues Tortes, and Ossoue. [Small fern: irregularly 1-3 forked]

Asplenium trichomanes - Maidenhair Spleenwort - widespread, rock crevices, e.g. Tor, Rioumajou, Eyne.
[Small 1-pinnate tufted fern, dark rhachis]

Asplenium viride - Green Spleenwort - rocks, Rioumajou, Ossoue, Collegats

Asplenium fontanum - Black Forest Spleenwort - rocks low on the Tor road and Segre

Ceterach officinarum - Rusty back Fern - Gaudi's Inspiration

Phyllitis scolopendrium - Hartstongue - Rioumajou 2013

Woodsiaceae

Athyrium filix-femina - Lady Fern - woods, France
[Graceful, large 2-3 pinnate fern, sickle-shaped indusia]

Athyrium distentifolium - Alpine Lady Fern - Vielha, Aigues Tortes, Bonaigua

Cystopteris fragilis - Brittle Bladder-fern - Humid crevices, Tor, Rioumajou, Eyne
[Delicate, 2-3 pinnate, tufted]

Gymnocarpium dryopteris - Oak Fern - Shaded rocks, France and Aigues Tortes
[Triangular 3-pinnate, creeping]

Gymnocarpium robertianum - Limestone Fern - Rioumajou, Gavarnie

Dryopteridaceae

Dryopteris filix-mas - Male Fern - Woodland, France
[Familiar large 2-pinnate fern, pinnule with acute teeth]

Dryopteris borrieri - Tor and Rioumajou, not seen 2016?

Dryopteris dilatata - Broad Buckler Fern - day 10, 2012

Dryopteris oreades - Mountain Male Fern - Aigues Tortes etc.

Polystichum aculeatum - Hard Shield-fern - woodland, e.g. Rioumajou
[Like Male Fern, but leathery, bristle-like teeth]

Polystichum lonchitis - Holly Fern - montane rock, e.g. Aigues Tortes, Eyne, Gavarnie
[1-pinnate, leathery, pinnae with auricle at base]

Polystichum setiferum - Soft Shield Fern - Rioumajou

CONIFERS

Pinaceae

Abies alba - Silver Fir - Locally dominant, e.g. Aigues Tortes
[Big tree needle-leaves borne singly on twigs but not on peg projection]

Picea abies - Norway Spruce - forest in France
[From last by leaves borne on persistent pegs]

Pinus halepensis - Aleppo Pine - Tremp area

Pinus nigra - Austrian Pine - Andorra

[Like Scots Pine, but needles 6-18cm & 1-2mm wide. Ssp. *salzmannii*]

Pinus sylvestris - Scots Pine - widespread and locally dominant

[2 needle pine, leaves <7cm long, cones pendent. Mainly "var. *pyrenaica*"]

Pinus uncinata - a mountain pine - locally dominant, e.g. Tor and Aigues Tortes

[From last by upright cone, bright green not glaucous]

Larix decidua - Larch - forest, locally dominant

[deciduous conifer]

Cupressaceae

Cupressus sempervirens - Italian Cypress - planted on verges etc. in south, sub-Mediterranean zone

[Conifer tree with tiny paired scale-like leaves - columnar form, var. *pyramidalis*]

Juniperus communis - Common Juniper - ssp. *alpina* and ssp. *communis*

[Aromatic shrub, needle-leaves (whorls of 3), black berry-like cone]

Juniperus o. oxycedrus - Prickly Juniper - Montanana road, Salas, Segre

[From last by red-purple berry-like cone and 2 (not 1) glaucous bands]

Juniperus phoenicea - Phoenicean Juniper - sub-Mediterranean zone

Ephedraceae

Ephedra distachya - a Joint Pine - Baixols area, St.Llorenç, 2010

FLOWERING PLANTS

DICOTYLEDONS

Salicaceae

Populus alba - White Poplar - scattered

[Familiar suckering tree whose maple-like leaves are white downy below]

Populus nigra - Black Poplar - scattered

[Tall tree, fluttering leaves shaped like ace of spades]

Populus tremula - Aspen - widespread

[From last by rounded, sinuate-toothed leaves]

Salix alba - White Willow - scattered

[Tall tree whose linear-lanceolate leaves are appressed white silky]

Salix appendiculata - Val d'Eyne

Salix bicolor - Vielha tunnel

Salix caprea - Sallow - scattered, e.g. Eyne, Segre

[Big shrub, ovate leaves grey-hairy beneath]

Salix cinerea - Grey Willow - scattered, e.g. Segre

Salix elaeagnos - Olive Willow - scattered, e.g. near Pont de Suert, Salas

[Waterside shrub with narrow leaves, white-woolly beneath]

Salix fragilis - Crack Willow - along rivers, e.g. Segre

Salix phylicifolia - Aigues Tortes

Salix purpurea - Purple Willow - by rivers, e.g. Pont de Suert

[Oblanceolate, glaucous, sub-opposite leaves]

Salix pyrenaica - Pyrenean Willow - Gavarnie

Salix x sepulchralis - Weeping Willow

[Large-tree, narrow yellowish leaves, pendant branches]

Salix triandra - Almond Willow - recorded in the past

Juglandaceae

Juglans regia - Walnut

[Tree with alternate pinnate leaves, 7-9 ovate leaflets - chambered pith]

Betulaceae

Alnus glutinosa - Common Alder - by water

[Familiar tree with blunt roundish leaves and fruits like small cones]

Alnus incana - Grey Alder - Gavarnie

Betula pendula - Silver Birch - frequent at moderate altitudes on forest edges

[Familiar slender tree with whitish bark and small heart-shaped leaves]

Betula pubescens - Downy Birch - Val d'Eyne 2016

Corylaceae

Carpinus betulus - Hornbeam - France

Corylus avellana - Hazel - woodland at lower levels

[Familiar shrub with roundish leaves]

Fagaceae

Castanea sativa - Sweet Chestnut - in France en route St.Lary Soulan, 2013

Fagus sylvatica - Beech - locally dominant, submontane forest

[Majestic forest tree: grey bark & oval leaves]

Quercus coccifera - Kermes Oak - sub-Mediterranean scrub

[Shrub or tree with evergreen, holly-like leaves]

Quercus faginea - an oak - Canto road

[Semi-evergreen tree with toothed wavy-edged leaves and hairy beneath]

Quercus ilex - Holm Oak - Canto road

[Evergreen tree with lanceolate leaves paler (downy) beneath]

Quercus petraea - Sessile Oak - France

Quercus pubescens - Downy Oak

Ulmaceae

Celtis australis - Nettle Tree - Sub-Mediterranean scrub, e.g. La Seu d'Urgell

[Deciduous tree, alternate leaves, 1-serrate, asymmetric base]

Ulmus minor - Small-leaved Elm - scattered

[Similar, but leaves doubly serrate, rounder; tree freely suckering]

Ulmus glabra - Wych Elm - Gavarnie, Tor

Moraceae

Ficus carica - Fig - sub-Mediterranean scrub

[Familiar tree with large palmately-lobed leaves and large dark fruit]

Morus alba - White Mulberry - lower altitudes in the past

Cannabaceae

Humulus lupulus - Hop

[Climber, rough, opposite 3-5 lobed leaves]

Urticaceae

- Parietaria judaica* - Pellitory-of-the-wall - Collegats
Urtica dioica - Stinging Nettle - common everywhere
[Familiar coarse stinging weed]
Urtica urens - Annual Nettle - recorded 2012

Loranthaceae

- Viscum album* - Mistletoe - lower altitudes in France, on *Pinus*

Santalaceae

- Thesium alpinum* - Alpine Bastard Toadflax - Eyne, Segre, Tor, Aigues Tortes
Thesium divaricatum - Branched Bastard Toadflax - Perbes, Montanana road
Thesium pyrenaicum - Pyrenean Bastard Toadflax - Vielha 2013
Osyris alba - sub-Mediterranean scrub, Salas, 2013

Aristolochiaceae

- Aristolochia pistolochia* - a birthwort - Salas

Polygonaceae

- Fallopia convolvulus* - Black-bindweed
Polygonum alpinum - Alpine Knotgrass - Segre
Polygonum aviculare - Common Knotgrass - scattered
[Familiar weed]
Polygonum bistorta - Bistort - meadows, locally very common
[Pink spikes, leaves lanceolate with winged stalk]
Polygonum equisetiforme - Salas 2012
Polygonum persicaria - Redshank
Polygonum viviparum - Alpine Bistort - Vielha tunnel
[White spikes, giving way below to reddish bulbils, linear-lanceolate leaves]
Reynoutria japonica - Japanese Knotweed
Reynoutria sachalinensis - Giant Knotweed, 2013
Rumex acetosa - Common Sorrel - meadows
[Like a dock with arrow-shaped leaf, and no warts on fruit]
Rumex acetosella - Sheep's Sorrel - open stony sites, e.g. Aigues Tortes
[More slender, spreading leaf-lobes; ssp. *pyrenaicus*]
Rumex alpinus - Monk's Rhubarb - local by cattle enriched areas. Not seen 2016!
[Typical dock, but leaves almost round and no warts on fruit]
Rumex crispus - Curled Dock - Tor road
Rumex longifolius - Northern Dock - a few records 2012
Rumex obtusifolius - Broad-leaved Dock
[Familiar coarse weed with broad leaves]
Rumex pulcher - Fiddle Dock - Tremp area
Rumex scutatus - French Sorrel - Segre, Gavarnie
[Grey "mitre"-leaves, spreading basal lobes]

Chenopodiaceae

- Beta vulgaris* - Sea Beet - Tremp area 2012
Chenopodium album - Fat Hen

[Mealy annual, irregular-toothed lanceolate leaves, grey-green flowers]

Chenopodium bonus-henricus - Good King Henry - montane paths

[More spicate head, leaves broad arrow-shaped]

Chenopodium vulvaria - Stinking Goosefoot - near Salas 2012, aptly named

Polycnemum arvense - lower part of Santa Engracia track

Amaranthaceae

Amaranthus sp. - Tremp area 2012

Portulacaceae

Montia fontana - Blinks - wet flushes, e.g. Eyne, 2016

Caryophyllaceae

Telephium imperati - near Pont de Suert, and near La Seu d'Urgell

Arenaria serpyllifolia - Thyme-leaved Sandwort - widespread

[Erect annual: opposite oval leaves and small white flowers with star-like sepals]

Arenaria ciliata - Ciliate-leaved Sandwort - Eyne, Troumouse

Arenaria hispida - a Sandwort - Santa Engracia area, 2010. = *fontqueri hispanica*

Arenaria aggregata - a Sandwort - Perbes, in leaf this year

Arenaria grandiflora - Large-flowered Sandwort - Gavarnie area

Arenaria purpurascens - 2 clumps on route to Cirque de Gavarnie

Minuartia laricifolia - at the 'tulip' stop on the arrival day, in leaf, 2013

Minuartia mutabilis - Andorra lunch site, in leaf, 2013. = *rostrata*

Minuartia sedoides - Mossy Cyphel - Andorra, in leaf, 2013

Minuartia verna - Spring Sandwort - In flower above Tor

Stellaria graminea - Lesser Stitchwort - widespread

[From next by flowers only 5-12mm]

Stellaria holostea - Greater Stitchwort - widespread, shade, e.g. Eyne and Segre

[Long narrow leaves & white flowers 15-30mm]

Stellaria nemorum - Wood Stitchwort - Neouvielle 2012

Stellaria media - Chickweed

Stellaria alsine - Bog Stitchwort - Vielha

Holosteum umbellatum - *Pulsatilla rubra* site 2013

Cerastium arvense - Field Mouse-ear - widespread and common

[Perennial, mat-forming, white flowers ca 2cm, 5 styles]

Cerastium cerastoides - Starwort Mouse-ear - Puymorens

[Similar, but almost hairless, flowers 9-15mm with 3 styles only]

Cerastium glomeratum - Sticky Mouse-ear - scattered

Cerastium fontanum - Common Mouse-ear - e.g. Vielha

Cerastium alpinum - Alpine Mouse-ear - Aigues Tortes, in leaf this year

Sagina procumbens - Mossy Pearlwort

[Mossy mat-forming perennial, 4 green sepals, no petals]

Sagina saginoides - Alpine Pearlwort - Perbes, Vielha

Scleranthus perennis ssp. *polycnemoides* - Perennial Knawel - scattered, e.g. Aigues Tortes, Tor, Perbes,

Eyne

Scleranthus annuus - Annual Knawel - e.g. Tor, Aigues Tortes

Paronychia kapela - Perbes, Canto road

[Low mat-forming perennial with very prominent silvery stipules and sepals]

Paronychia polygonifolia - widespread in France, e.g. Puymorens

Herniaria glabra - Glabrous Rupturewort - Canto road

Herniaria hirsuta - Hairy Rupturewort - Recorded
Herniaria latifolia - Troumouse
Spergularia rubra - Sand Spurrey - Eyne
Agrostemma githago - Corncockle - Arable weed in France, 2013
Lychnis alpina - Alpine Catchfly - Andorra, Bonaigua
 [Low, tufted perennial: compact head of dark pink flowers, deeply notched petals]
Lychnis coronaria - Rose Campion - naturalised in France, and Val d'Aran
 [Like dark pink campion, but plant densely white hairy]
Lychnis flos-cuculi - Ragged Robin - roadsides in France
 [Familiar perennial with 4-lobed dark pink petals]
Silene acaulis - Moss Campion - locally common in Gavarnie area, and Neouvielle
 [Moss-like cushions, linear leaves, pink flowers and very short stems [ssp.*bryoides*]]
Silene alba - White Campion - France, roadsides
Silene dioica - Red Campion - France, and Vielha
 [Familiar large hairy red campion]
Silene italica - Italian Catchfly - Recorded
Silene nutans - Nottingham Catchfly - scattered, e.g. Ossoue
 [Sticky perennial, spatulate leaves, nodding white flowers, petals rolled back and capsule 8-12mm]
Silene rupestris - Rock Campion - widespread on rocks, e.g. Aigues Tortes and France
 [Low grey hairless perennial, clusters of 1cm white flowers]
Silene saxifraga - Tufted Catchfly - lower Tor valley, Segre, and Ossoue
 [Tufted perennial, sticky with slender stems and white flowers bigger than last]
Silene legionensis - a campion - Tor and Vielha
 [Like *S. nutans* but greenish-white and capsule 12-14mm]
Silene vulgaris - Bladder Campion - widespread and common
 [Grey hairless perennial: white flowers, inflated calyces]
Silene otites - Spanish Catchfly - near Tremp, very tall
Silene gallica - Small-flowered Catchfly - lunch site on arrival day 2011
Cucubalus baccifer - Berry Catchfly - in leaf at Salas 2012
Saponaria caespitosa - a soapwort - Ossoue, in fine flower, 2012
Saponaria bellidifolia - a soapwort - 2 plants, Ossoue, 2016, a very scarce species. This is one of only two sites in the Pyrenees.
Saponaria ocymoides - Rock Soapwort - widespread and very common
 [Low sprawling perennial, branched clusters of dark pink flowers 6-10mm, narrow oval leaves]
Saponaria officinalis - Common Soapwort - verges
 [Like hairless patch-forming pale pink campion]
Gypsophila repens - Alpine Gypsophila - Gavarnie
Petrorhagia prolifera - Proliferous Pink - Canto road
 [Slender annual pink, flower cluster with brown papery bracts]
Petrorhagia nanteuilii - Canto road, Montanana road, 2013
Dianthus armeria - Deptford Pink - Perbes 2011
Dianthus barbatus - Sweet William - Day 1, 2012
Dianthus carthusianorum - Carthusian Pink - Day 1, and locally common Gavarnie area
 [deep pink flower clusters, not flat-topped]
Dianthus deltoides - Maiden Pink - Aigues Tortes
Dianthus hispanicus - a pink - Guingetta lake cliffs
Dianthus monspessulanum - a fringed pink - between Arreau and Tourmalet, and Gavarnie, not in flower this year
Dianthus pyrenaicus - Pyrenean Pink - Canigou, Fillols, in leaf, 2012
Dianthus seguieri - Seguier's Pink - Gavarnie area, Tor, 2012

Ranunculaceae

Helleborus foetidus - Stinking Hellebore - widespread, scrub and rocks

[Typical hellebore with digitate leaves (all on stem) and pale green flowers, edged purple]

Helleborus viridis ssp. occidentalis - Green Hellebore - widespread, shade, e.g. Eyne where numerous

[Has basal leaves, pure green flowers]

Trollius europaeus - Globe-flower - scattered records, e.g. Mt. Louis and Eyne, locally very common

[Like large palmate-leaved buttercup with almost spherical yellow flowers 3-5cm]

Actaea spicata - Baneberry - Eyne, in leaf, 2013

Caltha palustris - Marsh-marigold - widespread in wet sites, e.g. Tor and Eyne

[Heart-shaped leaves and head of beaked pods (follicles)]

Delphinium montanum - Mountain Larkspur - in leaf at Val d'Eyne and Segre

Aconitum napellus - Monk's-hood - in leaf at Gavarnie

Aconitum anthora - Yellow Monk's-hood - noted in leaf

Anemone narcissiflora - Narcissus-flowered Anemone - Andorra

Anemone nemorosa - Wood Anemone - Puymorens

[Familiar delicate white flower]

Hepatica nobilis - Hepatica - mostly in leaf, a few flowers, Val d'Eyne, Puymorens, Segre, Tor

[Basal leaves 3-lobed, purple beneath]

Pulsatilla alpina ssp. alpina - Alpine Pasque-flower - alpine turf, Aigues Tortes, white flowers.

Pulsatilla alpina ssp. apiifolia - Alpine Pasque-flower - alpine turf, pale yellow flowers, Eyne, and Andorra

Pulsatilla rubra - several in fine flower near Mont-Louis

Pulsatilla vernalis - Spring Pasque-flower - Aigues Tortes and Envalira

[Stem-leaves unstalked, 1-pinnate, "petals" flushed pink]

Clematis flammula - Fragrant Clematis - St. Llorenç 2010

[Typical *Clematis* with 2-pinnate leaves]

Clematis vitalba - Traveller's Joy - scattered in leaf

[Similar but more robust and 1-pinnate]

Adonis aestivalis - Pheasant's-eye - Segre meadows 2013, large yellow flowers

Adonis pyrenaica - Pyrenean Pheasant's-eye - many in fine flower in Val d'Eyne

Ranunculus aconitifolius - Aconite-leaved Buttercup - Vielha tunnel 2013

[Leaves 5-7 lobed, leafy with numerous white flowers]

Ranunculus plataniifolius - Aigues Tortes and Vielha tunnel

Ranunculus acris - Meadow Buttercup - meadows

[Familiar perennial, palmate leaves and yellow flowers]

Ranunculus amplexicaulis - Amplexicaule Buttercup - Bonaigua and Aigues Tortes

[White-flowered; lanceolate leaves clasp stem]

Ranunculus bulbosus - Bulbous Buttercup - scattered

[Bulbous, reflexed sepals, 3-lobed leaves]

Ranunculus auricomus - Goldilocks buttercup - Tor

Ranunculus pyrenaicus - Pyrenean Buttercup - alpine turf, especially where snow lay late, e.g. Andorra,

Puymorens, locally numerous [White flowered; leaves blue-green, linear to lanceolate, not clasping stem]

Ranunculus repens - Creeping Buttercup - widespread

[Familiar creeping herb, three distinct leaflets, sepals not reflexed]

Ranunculus montanus s.l. - Mountain Buttercup - widespread at higher altitudes, e.g. Eyne

Ranunculus gouanii - Gouan's Buttercup - Cirque de Gavarnie

Ranunculus arvensis - Corn Buttercup - arable weed at Salas 2011

Ranunculus flammula - Lesser Spearwort - Rioumajou 2013

Ranunculus ficaria - Lesser Celandine - in flower Segre, 2013

Aquilegia vulgaris - Columbine - widespread in woods and meadows

[Familiar blue-purple flower with hooked spurs, not sticky – staminodes blunt]

Aquilegia pyrenaica - Pyrenean Columbine - In leaf at Eyne 2013

Thalictrum aquilegifolium - Great Meadow-rue - Eyne, etc.
[2-3 pinnate, oval leaflets, branched flowerheads with prominent stamens]
Thalictrum tuberosum - a fine meadow-rue, Perbes and Pont de Suert
Thalictrum minus - Lesser Meadow-rue - in leaf at Salas

Paeoniaceae

Paeonia officinalis microcarpa - Common Peony - a few in fruit near Pont de Suert

Papaveraceae

Chelidonium majus - Greater Celandine - Arreau
[Familiar plant: orange sap, yellow flower]
Glaucium corniculatum - Red-horned Poppy - near St.Llorenc, 2009
Meconopsis cambrica - Welsh Poppy - Vielha tunnel, and widespread in France
[Perennial yellow poppy, yellow latex and ribbed ovoid-oblong pod]
Papaver argemone - Prickly Poppy - Segre car park 2012
Papaver dubium - Long-headed Poppy - scattered, e.g. Tor
[Long-fruited poppy whose pods have no bristles]
Papaver rhoeas - Corn Poppy - widespread and common
[Typical red poppy, often with black blotches, globular pods]

Fumariaceae

Corydalis solida - Solid-tubered Corydalis - Numerous in flower at Eyne 2013, and also below Bonaigua. 2016
in leaf, and one in flower at Eyne.
Fumaria officinalis - Common Fumitory - Canto road and Tor
Fumaria vaillantii - a Fumitory - Tor, 2009
Sarcocapnos enneaphylla - Sarcocapnos - a few at 'Gaudi's Inspiration'
[2-3 divided leaves, white corydalis-type flowers, short spurs]

Brassicaceae

Sisymbrium austriacum - Austrian Mustard - Tor, below Bonaigua, Vielha, and France, widespread
[From next by pods more spreading, and slightly twisted]
Sisymbrium officinale - Hedge Mustard - Recorded
[Erect yellow cress, pinnately-lobed leaves, pods appressed to stem]
Sisymbrium irio - London Rocket - Alins 2011
Murbeckiella pinnatifida - Murbeckiella - alpine turf, Puymorens, Aigues Tortes
[White notched petals, narrow pods and pinnatifid leaves]
Alliaria petiolata - Garlic Mustard - shade
[Familiar white mustard with heart-shaped leaves]
Descurainia sophia - Flixweed - Tor and Segre
Isatis tinctoria - Woad - roadsides in France
Erysimum duriaei ssp. pyrenaicum - a treacle-mustard - Canto road, Tor and Eyne
[Tufted yellow perennial, lanceolate leaves; narrow pods, square in section, stigma 2-lobed.]
Erysimum sp. - a treacle mustard - Ossoue
Hesperis matronalis - Dame's Violet - white flowered form
[From familiar stock-like garden plant]
Matthiola fruticulosa - Ager road 2010
Barbarea intermedia - Medium-flowered Wintercress - noted on Day 1
Barbarea vulgaris - Common Wintercress - scattered, e.g. Puymorens

Rorippa pyrenaica - Tor, Segre, etc.
Rorippa sylvestris - Creeping Yellowcress - Perbes
Cardamine impatiens - Narrow-leaved Bittercress - scattered, shade, e.g. Segre
 [Pinnate biennial, 5mm white flowers, long pods]
Cardamine flexuosa - recorded Day 10, 2013
Cardamine pentaphyllos - in fruit at Rioumajou, 2013
Cardamine heptaphylla - Seven-leaflet Bittercress - 2013
Cardamine resedifolia - Mignonette-leaved Bittercress - Aigues Tortes, Eyne, Puymorens
Cardamine amara - Large Bittercress - Eyne
Cardamine pratensis - Lady's smock - Eyne, Mt.Louis
Cardamine raphanifolia - Radish-leaved Bittercress - widespread by water, e.g. Tor, Aigues Tortes, Rioumajou, Eyne, Valcebollere
 [Reddish-violet perennial, pinnate (leaflets 3-11 and roundish) – narrow flattened pods]
Cardamine hirsuta - Hairy Bittercress - scattered records, e.g. Eyne
Arabis glabra - Tower Cress - Segre
 [Tall cream cress: hairless grey leaves clasping stem]
Arabis hirsuta - Hairy Rockcress - scattered records
 [Slender bristly unbranched white cress, pods pressed to stem]
Arabis turrata - Tower Rockcress - occasional in seed or flower, e.g. Segre
 [Tall softly hairy cress, long curved pods]
Arabis alpina - Alpine Rockcress - Eyne, Cerdagne
Arabis corymbiflora - Neouvielle
Arabidopsis thaliana - Thale Cress - Locally common
Alyssum alyssoides - Small Alison - Tor
Lunaria annua - Honesty - recorded 2012
Lunaria rediviva - Perennial Honesty - noted on Day 8 at the lunch site, 2009
Clypeola jonthlaspi - scattered records in Spain, e.g. Canto road, Tor, 2013
Draba aizoides - Yellow Whitlow-grass - rocks near Gavarnie
 [All leaves basal, narrow; yellow flowers, oval pods]
Draba nemorosa - a whitlow-grass - Eyne, Valcebollere
Erophila verna - Spring Whitlow-grass - locally common, e.g. *Pulsatilla rubra* site
Kernera saxatilis - Gavarnie and lower Ossoue
Capsella bursa-pastoris - Shepherd's-purse - widespread and common
 [Familiar white cress with triangular fruit]
Hornungia petraea - Hutchinsia - Segre, Ossoue, 2016
Pritzelago alpina - Chamois Cress - Andorra, Bonaigua and Gavarnie
Cochlearia pyrenaica - a scurvy grass - below Col de Tourmalet, lunch site
Thlaspi arvense - Field Pennycress - Tor
 [Familiar weed with round, broadly winged pods, deeply notched]
Thlaspi montanum - Mountain Pennycress - Eyne, 2013
Thlaspi perfoliatum - Perfoliate Pennycress - Tor, Eyne, Bonaigua
 [Small hairless white annual with grey leaves clasping stem, petals <3mm]
Iberis s. spathulata - Spoon-leaved Candytuft - in fine flower and fruit on river gravels, Troumouse
 [Flat-topped fruiting head, flowers white or purplish]
Iberis sempervirens - Evergreen Candytuft - Eyne
Iberis amara - Ossoue
Erucastrum nasturtiifolium - Scattered records
Biscutella valentina - a buckler-mustard - scattered, e.g. Valcebollere, Canto road
Biscutella auriculata - a buckler-mustard - Santa Engracia
Cardaria draba - Hoary Cress - roadsides
Lepidium campestre - Field Pepperwort - Segre valley meadows

Brassica repanda - Alpine Cabbage - Troumouse 2008
Coincya monensis ssp. cheiranthos - Wallflower Cabbage - Cerdagne, Troumouse, etc.
[Like pinnate-lobed yellow hairy cabbage, long (3-9cm) beaked pods]

Resedaceae

Reseda glauca - Pyrenean Mignonette - Neouvielle, Gavarnie
[Typical mignonette but with whitish flowers and linear leaves]
Reseda lutea - Wild Mignonette - dry grassy and rocky verges, scattered records, e.g. Perbes, Canto road
[Differs in pinnatifid leaves and pale yellow flowers]
Reseda luteola - Weld - France, 2013
Reseda phyteuma - Corn Mignonette - Segre
Sesamoides clusii - Sesamoides - turf and rocks, Aigues Tortes, Bonaigua, Andorra
[Like tiny tufted mignonette, but arching linear leaved, dwarf perennial]

Droseraceae

Drosera rotundifolia - Round-leaved Sundew - several at Vielha in leaf

Crassulaceae

Sedum acre - Wallpepper - dry stony sites, widespread, e.g. Perbes
[Typical yellow thick-leaved perennial stonecrop, peppery taste]
Sedum album - White Stonecrop - similar habitats, e.g. Tor
[Typical white perennial stonecrop, alternate glabrous leaves]
Sedum alpestre - a stonecrop - Err-Puigmal
Sedum anglicum - English Stonecrop - Tor, Gavarnie, Col d'Aspin
Sedum annuum - Annual Stonecrop - acid gravel, Troumouse
[Annual, often reddish, yellow flowers and oblong leaves]
Sedum atratum - Dark Stonecrop - Neouvielle, Troumouse
Sedum brevifolium - Andorra 2013
Sedum dasyphyllum - Thick-leaved Stonecrop - acid rocks, widespread
[From *S. album* by opposite ovoid leaves]
Sedum hirsutum - a stonecrop - La Guingeta, in leaf
Sedum rupestre - Rock Stonecrop - widespread, e.g. Aigues Tortes
[Perennial like next, but bright yellow and leaves linear-terete]
Sedum sediforme - a stonecrop - scattered records
[More robust, pale yellowish flowers and oblong flat-topped leaves]
Sedum telephium - Orpine - in leaf at Rioumajou, Segre, etc.
[Perennial: flat toothed leaves and purplish flowers. Ssp. *fabaria*]
Sempervivum arachnoideum ssp. tomentosum - Cobweb Houseleek - acid rocks, e.g. Tor and Cerdagne
[Like *S. tectorum* but red-pink & dense cover of cobweb hairs.]
Sempervivum m. montanum - Mountain Houseleek - acid rocks, local but widespread, e.g. Tor, Aigues Tortes, and Gavarnie area [From last by wine-red flowers and short hairs]
Sempervivum tectorum - Common Houseleek - local, e.g. Eyne, rosettes
[Familiar succulent hairless rosettes of overlapping acute leaves; branched head of pinkish flowers]
Umbilicus rupestris - Navelwort - rock/walls, Spain, and Cerdagne
[Typical navelwort with palish green pendant flowers]

Saxifragaceae

Chrysosplenium oppositifolium - Opposite-leaved Golden Saxifrage - Eyne, 2013
Saxifraga aizoides - Yellow Mountain Saxifrage - wet stony places, in leaf in Andorra and Vielha, and

Eyne [Yellow saxifrage, (petals often red-dotted) fleshy oblong leaves]
Saxifraga aquatica - Water Saxifrage - stream edges, Eyne and Aigues Tortes, in leaf, and Tor, in flower
 [Stout, erect leafy saxifrage, leaves 3-lobed and shiny; flowers white and 15-20mm]
Saxifraga aretioides - 1, gone over, Ossoue, 2016
Saxifraga aspera - Rough Saxifrage - In bud at the 'tulip' site 2013
Saxifraga bryoides - Val d'Eyne, in bud, 2016
Saxifraga clusii - French Saxifrage - damp acid rocks, Tor
 [Hairy, oval leaves (10-20 toothed) in rosette, 3 long & 2 short white petals]
Saxifraga cotyledon - Pyramidal Saxifrage - rosettes at the Troumouse lunch site, 2012
Saxifraga exarata ssp. moschata - White Musky Saxifrage - rocks, Ossoue, Neouvielle
 [Hairy cushion saxifrage, 3-5 lobed leaves (not grooved), white oblong petals.]
Saxifraga granulata - Meadow Saxifrage - grassland, widespread, e.g. Cerdagne, Tor and Vielha, locally very common. [Kidney-shaped toothed leaves, bulbils at base and white flowers]
Saxifraga geranioides - Geranium-like Saxifrage - Val d'Eyne, Err-Puigmal
Saxifraga hirsuta - Kidney Saxifrage - moist shady ledges, Rioumajou and below Tourmalet
 [Rosettes of long-stalked round hairy leaves; white flowers with red spots - numerous]
Saxifraga intricata - Col de Tentes and Gavarnie area.
Saxifraga longifolia - Pyrenean Saxifrage - limestone cliffs, in good flower this year on both sides of the border, but not as numerous as usual
 [From next by single big rosette, linear strap-like leaves and large white "fox-brush spire" inflorescence]
Saxifraga media - Reddish Saxifrage - in fine flower at Segre
Saxifraga oppositifolia - Purple Saxifrage - Col de Tentes, Troumouse, in flower
Saxifraga paniculata - Panicle Saxifrage - rocks/screes, widespread and locally common, as along Tor road [Lime encrusted rosettes, many white flowers, erect]
Saxifraga praetermissa - river gravels at Troumouse, several in flower, 2012
Saxifraga pubescens - Aigues Tortes, Segre, Troumouse gravels
Saxifraga retusa - Retuse-leaved Saxifrage - in leaf at Tourmalet, 2012?
Saxifraga rotundifolia - Round-leaved Saxifrage - Recorded 2011 and 2012
Saxifraga stellaris - Starry Saxifrage - damp rocks, e.g. Vielha tunnel, Tor, Aigues Tortes, and Ossoue valley [Like *S. clusii* but leaves 6-10 toothed, petals usually equal]
Saxifraga umbrosa - Wood Saxifrage - Rioumajou, Tourmalet
Saxifraga umbrosa x hirsuta - apparently this hybrid growing near the two parents in Rioumajou 2013

Parnassiaceae

Parnassia palustris - Grass-of-Parnassus - in leaf, Gavarnie area
 [Rosette of hairless long-stalked heart-shaped leaves]

Hydrangeaceae

Philadelphus coronarius - Mock Orange - Toulouse roadsides
 [naturalised popular sweetly scented white-flowered garden shrub]

Grossulariaceae

Ribes uva-crispa - Gooseberry - Eyne, Segre
Ribes petraeum - Rock Redcurrant - Aigues Tortes, Eyne
 [Typical currant, racemes horizontal or drooping]
Ribes alpinum - Aigues Tortes
 [Typical currant, racemes erect]

Platanaceae

Platanus x hispanica - London Plane - planted on roadsides
[Tree with alternate palmate leaves, scaling bark]

Rosaceae

Agrimonia eupatoria - Agrimony - near Tremp 2013

[Long spike of yellow flowers, bur fruit, leaves pinnate with alternating large and small leaflets]

Alchemilla alpina - Alpine Lady's-mantle - scattered records

Alchemilla basaltica - a lady's-mantle - acid rocks

[Palmate leaves of 5-7 separate leaflets, silver beneath; clusters of small greenish flowers (each of 4 sepals)]

Alchemilla fallax - Deceptive Lady's-mantle - rocky grassland

[Flowers as last; leaves 7-9 lobed (cut <1/2 way), hairless above and slightly hairy underneath]

Alchemilla flabellata - apparently this at Vielha, 2012

Alchemilla plicatula - a lady's-mantle - Tentes 2012

[As *A. basaltica*, but all 7 leaflets except middle one joined near their base]

Alchemilla vulgaris s.l.- Common Lady's-mantle - grassland, widespread

[As *A. fallax* but spreading hairs on stems and on underside of leaves - *A. xanthochlora*?]

Alchemilla spp. - many other species of this very complex genus present but not identified

Amelanchier ovalis - Amelanchier - base-rich rocks, widespread

[Shrub with toothed oval leaves and white flowers (petals pointed and narrow)]

Aruncus dioicus - Goat's-beard Spiraea - Rioumajou, roadsides near Ax-les-Thermes

[Tall herb with 2-pinnate leaves, pyramidal head of white spikes]

Cotoneaster integerrimus - Wild Cotoneaster - Eyne and Mt.Louis area

Cotoneaster nebrodensis - Eyne

Crataegus monogyna - Hawthorn - scrub, widespread

[Familiar shrub]

Dryas octopetala - Mountain Avens - France, 2012

[creeping with white 8-petalled flowers and fluffy seed heads]

Filipendula ulmaria - Meadowsweet - meadows etc.

[Tall herb with =5 pairs of large elm-like leaflets alternating with tiny leaflets; many creamy fragrant flowers]

Filipendula vulgaris - Dropwort - scattered records, e.g. Montanana road and Salas

[Like slender meadowsweet, but 8-25 pairs of the larger leaflets; white petals often purplish beneath]

Fragaria moschata - Hautbois Strawberry - Gavarnie

[Like next but flower stalks longer than leaves]

Fragaria vesca - Wild Strawberry - widespread

[Familiar wild strawberry – short flower-stalks]

Geum montanum - Alpine Avens - alpine turf, Andorra

[Like *G. urbanum*, but flowers 25-40mm and fruit with many unhooked styles]

Geum rivale - Water Avens - Mt.Louis

[From other avens by its nodding cream or pale pink flowers]

Geum pyrenaicum - Pyrenean Avens - Gavarnie, Cirque track

Geum urbanum - Herb Bennet - shade, scattered records, e.g. Gavarnie, Salas

[Yellow flower <15mm, pinnate (big terminal leaflet), fruit barbed style]

Malus sylvestris - Crab Apple - Gavarnie

Potentilla alchimilloides - Alchemilla-leaved Cinquefoil - Ossoue Valley

[Leaves like those of *Alchemilla basaltica*, but only toothed at tip; white flowers ca 2cm]

Potentilla montana - Gavarnie area, locally common

Potentilla anserina - Silverweed

[deeply dived very silvery foliage]

Potentilla argentea - Hoary Cinquefoil - Tor and in France
 [Yellow cinquefoil: leaves white beneath, dark green above]

Potentilla aurea - Golden Cinquefoil - acid montane turf, Eyne, Andorra, Aigues Tortes and Tor
 [Like *P. reptans* but mat-forming, flowers with gold centres in clusters]

Potentilla brauneana - Dwarf Cinquefoil - Tourmalet and Tentes 2012

Potentilla crantzii - Alpine Cinquefoil - Ossoue

Potentilla erecta - Tormentil - acid grassland, numerous at Vielha
 [Ascending herb with yellow 4-petalled flowers]

Potentilla micrantha - Pink Barren Strawberry - Aigues Tortes, several

Potentilla nivalis - Snowy Cinquefoil - 1 plant in bud, Troumouse gravels, 2016

Potentilla reptans - Creeping Cinquefoil - near Pont de Suert
 [Familiar prostrate herb, solitary yellow flowers]

Potentilla rupestris - Rock Cinquefoil - rocks, local but widespread, Day 1, Tor, below Bonaigua
 [Pinnate leaves, white flowers]

Potentilla pyrenaica - Pyrenean Cinquefoil - Neouvielle 2009

Potentilla recta - Collegats

Potentilla tabernaemontani - widespread, e.g. Eyne, Perbes

Prunus avium - Gean - Eyne
 [Tall wild cherry tree, white flowers in sessile umbels]

Prunus dulcis - Almond

Prunus mahaleb - St Lucie's Cherry - Canto road, near Pont de Suert, not noted 2016
 [Shrub with short corymbs of black fruit, each 8-10mm]

Prunus padus - Bird Cherry - scattered records
 [Tree or bush, racemes of black fruit, each 6-8mm]

Prunus spinosa - Sloe, Blackthorn - widespread

Rosa agrestis - Field Briar - Canto road, leaves apple scented

Rosa canina s.l. - Dog Rose - widespread
 [Deciduous briar with hooked prickles, some sepals divided]

Rosa glauca - Blue-leaved Rose - Gavarnie area
 [From last by blue-green or purplish leaves, sepals not cut or lobed]

Rosa micrantha - Tremp area 2012

Rosa pendulina - Alpine Rose - open scrub, Vielha tunnel, Tor, Gavarnie, Eyne, Aigues Tortes
 [Pink-purple flowers and stems without prickles]

Rosa rubiginosa - Day 6, 2012

Rosa sempervirens - a rose - recorded 2011
 [Evergreen briar, few curved prickles, white flowers, style column]

Rosa pimpinellifolia - Burnet Rose - Valcebollere

Rosa stylosa - Styled Rose - Salas, in abundant flower

Rosa tomentosa - Downy Rose - Recorded

Rosa villosa - Day 10, 2012

Rubus caesius - Dewberry - near Pont de Suert 2013

Rubus canescens - small tomentose leaves and attractive white flowers, Canigou 2012

Rubus idaeus - Raspberry - widespread, e.g. Segre
 [Familiar woody plant: pinnate leaves whitish beneath]

Rubus fruticosus s.l. - Bramble - ubiquitous on verges, forest edges and rocks
 [Variable but typical bramble]

Rubus saxatilis - Rock Bramble - Recorded

Sanguisorba minor ssp. muricata - Salad Burnet - base-rich grassland, widespread
 [Familiar herb, pinnate cucumber-tasting leaves and round greenish heads]

Sanguisorba officinalis - Great Burnet - meadows, e.g. Eyne, in leaf
 [From last by oblong dull crimson heads]

Sibbaldia procumbens - Sibbaldia - Neouvielle, Lac du Cap du Long
Sorbus aria s.s. - Whitebeam - scattered records, e.g. Segre
[Tree with obovate leaves, white beneath]
Sorbus chamaemespilus - False Medlar - Aigues Tortes
Sorbus mougeotii - in fine flower in Ossoue valley
Sorbus aucuparia - Rowan - acid scrub/rock, widespread and locally common
[Familiar pinnate-leaved small tree]

Fabaceae

Anthyllis montana - Mountain Kidney-vetch - in flower, Perbes
[From next by red/purple heads, uninflated calyx]
Anthyllis vulneraria ssp. *forondae* - Kidney Vetch = *sampaioana*
[yellow flowers, calyx 11-13mm]
Anthyllis vulneraria ssp. *vulnerarioides* - Kidney Vetch
[as last but calyx 7-9mm]
Anthyllis vulneraria ssp. *pyrenaica* - Kidney Vetch = *alpestris* - e.g. Tor and Day 1
[Typical kidney vetch with calyx inflated when flowering, pink flowers]
Argyrolobium zanonii - Argyrolobium - Montanana road
[Low sub-shrub, silver hairy, heads of 1-3 yellow flowers]
Astragalus echinatus - Baixols 2008
Astragalus glycyphyllos - Wild Liquorice - near Pont de Suert
[Procumbent herb with pinnate leaves and heads of creamy flowers]
Astragalus monspessulanus - False Vetch - scattered records, e.g. Segre, Canto road, Ossoue
Astragalus purpureus - Purple Vetch - Perbes
Chamaespartium sagittale - Winged Greenweed - local, e.g. Eyne
[Leafless winged stems, heads of yellow flowers]
Colutea arborescens - Bladder Senna - Collegats
[Pinnate yellow spineless bush, heads of 3-8 and inflated pod.]
Coronilla scorpioides - Annual Scorpion-vetch - scattered in Spain, e.g. Montanana road
[Blue-green annual: simple (or trefoil) elliptical leaves, small yellow flowers and curved pods]
Coronilla emerus - Scorpion Senna - Montanana road, near Pont de Suert, Tor road
Coronilla minima - a scorpion-vetch - Perbes and Montanana road
Coronilla varia - Crown Vetch - Toulouse roadsides etc., Troumouse lunch site
Cytisus purgans - Pyrenean Broom - abundant in Spain and east France = *Cytisus oromediterraneus*.
[As next but <1m, standard 10-12 not 16-18mm]
Cytisus scoparius - Broom - France, e.g. Portillon
[Familiar tall spineless shrub]
Cytisus sessilifolius - a broom - near Pont de Suert
[Trefoil leaves (no or short stalk), flowers in leafless racemes]
Dorycnium hirsutum - Dorycnium - Salas
[Shaggy hairy herb, 5-foliolate leaves, 1-2cm pink/white flowers]
Dorycnium pentaphyllum - a dorycnium - lower altitudes in Spain
Echinopartum horridum - Echinopartum - abundant at Perbes
[Like dwarf gorse, opposite branches and trefoil leaves, oblong leaflets]
Genista anglica - Petty Whin - Mt.Louis, Puymorens
Genista hispanica - Spanish Gorse - Salas
[Similar to a dwarf gorse]
Genista tinctoria - Dyer's Greenweed
[Resembles dwarf broom, simple leaves]
Genista scorpius - Santa Engracia, Canto road
Genista pilosa - Tor and Aigues Tortes

Hippocrepis comosa - Horseshoe Vetch - widespread
[Pinnate perennial, heads of 5-12 yellow flowers and pods like string of horseshoes]

Lathyrus angulatus - Salas 2013

Lathyrus aphaca - Yellow Vetchling - La Guingeta 2013

Lathyrus ochraceus - Yellow Pea - Gavarnie area, synonyms *Orobus luteus* , *Lathyrus occidentalis*

Lathyrus latifolius - Broad-leaved Everlasting-pea - Santa Engracia area etc.
[Large clambering, 1 pair of leaflets, tendrils, broad winged stem and 2-3cm pink flowers]

Lathyrus montanus - Bitter Vetch - scattered, e.g. Vielha tunnel, Tor, and Aigues Tortes. = *Lathyrus linifolius*
[crimson flowers fading blue- green]

Lathyrus niger - Black Pea - Gedre 2013

Lathyrus nissolia - Grass Vetchling - 1 at Valcebollere

Lathyrus pratensis - Meadow Pea - scattered records. e.g. Tor, Eyne, Mt.Louis
[Familiar yellow vetch with tendrils and only one pair of leaflets]

Lathyrus setifolius - Valcebollere

Lathyrus sphaericus - 1 in Fillols, 2011

Lathyrus sylvestris - Narrow-leaved Everlasting-pea - recorded 2013

Lathyrus vernus - Spring Pea - scattered records, e.g. Segre

Lotus alpinus - Alpine Bird's-foot Trefoil - alpine turf, e.g. Err-Puigmal
[Similar to next, but heads of 1-3 flowers and leaflets 2-6mm]

Lotus corniculatus - Common Bird's-foot trefoil - widespread
[Familiar herb: 5 "leaflets" (each 5-15mm) & heads of 3-6 yellow flowers]

Lupinus polyphyllus - naturalised in France

Medicago lupulina - Black Medick
[Familiar medick with black fruit & many flowered heads]

Medicago s. sativa - Lucerne - near Pont de Suert, locally common in fields in France
[Purple-headed, fruit spineless and curved]

Medicago orbicularis - Large Disc Medick - near Tremp 2011

Medicago minima - Bur Medick

Medicago arabica - Spotted Medick

Medicago polymorpha - Toothed Medick - Canto road

Medicago suffruticosa - a medick - widespread, e.g.Eyne, Aigues Tortes, etc.

Melilotus alba - White Melilot - verges, locally common
[Typical tall melilot but white-flowered]

Melilotus officinalis - Common Melilot - verges
[From last by yellow flowers each 4-7mm]

Onobrychis supina - a sainfoin - Perbes etc.

Onobrychis viciifolia - Common Sainfoin - verges by autoroutes etc.

Onobrychis saxatilis - Rock Sainfoin - scattered records

Ononis aragonensis - near Pont de Suert

Ononis cristata - Mt.Cenis Restharrow - Perbes and Tor

Ononis fruticosa - Shrubby Restharrow - Montanana road

Ononis minutissima - Collegats

Ononis n. natrix - Large Yellow Restharrow - Perbes, Pont de Suert, Ossoue
[From *O. aragonensis* by petals reddish-veined; sticky hairy]

Ononis pusilla - Santa Engracia 2012

Ononis repens - Common Rest-harrow - Salas

Ononis rotundifolia - Round-leaved Restharrow - Gave de Gavarnie valley, Segre

Ononis spinosa - Spiny Restharrow - Montanana
[Spiny, often erect pink-flowered restharrow]

Ononis tridentata angustifolia - a restharrow - locally common near Tremp

Oxytropis campestris - Yellow Milk-vetch - Troumouse

Oxytropis halleri - Silky Milk-vetch - Eyne and Andorra

Psoralea bituminosa - Pitch Trefoil - sub-Mediterranean habitat in Spain and France
[Dull green trefoil, smelling of bitumen & violet-blue heads]

Robinia pseudacacia - False Acacia - France, locally common
[Spiny tree with pinnate leaves, pendent white racemes]

Spartium junceum - Spanish Broom - roadsides, locally very common
[Bush: rush-like branches; large yellow flowers]

Tetragonolobus maritimus - Dragon's-teeth - scattered records, e.g. Perbes road, locally common
[Hairy trefoil herb, pale yellow flowers, big winged pods]

Trifolium alpinum - Alpine Clover - alpine turf, Vielha, Aigues Tortes, Andorra, Troumouse, Bonaigua [A typical clover: linear lanceolate leaflets, heads of 3-12 flowers, each 18-25mm]

Trifolium arvense - Hare's-foot Clover - Tor, Canto road
[Hairy annual, pale pink hare's-foot heads]

Trifolium badium - Brown Clover - Tor, Vielha
[Resembles next i.e. large golden yellow trefoil, but turns chestnut]

Trifolium campestre - Hop Trefoil - Recorded
[Annual yellow trefoil, heads of 20-30 flowers]

Trifolium hybridum - Recorded

Trifolium m. medium - Zigzag Clover - Recorded

Trifolium montanum - Mountain Clover - widespread in meadows
[Erect white/sulphur perennial with lanceolate leaflets; individual flowers 7-9mm]

Trifolium ochroleucon - Sulphur Clover - below Col d'Aspin, Ossoue

Trifolium pallelescens - Pale Clover - Day 3, 2012

Trifolium pratense - Red Clover
[Erect red clover, usually with pale crescents on leaflets]

Trifolium r. repens - White Clover
[Familiar: white, creeping (rooting at nodes), papery fruit]

Trifolium rubens - Red Trefoil - France
[Erect perennial clover, with oblong (not oval/round) heads]

Trifolium scabrum - Rough Clover - very common at Perbes

Trifolium striatum - Knotted Clover

Trifolium thalii - Gavarnie

Vicia cracca - Tufted Vetch - widespread
[Familiar purple vetch, silvery leaves]

Vicia hirsuta - Hairy Tare - Valcebollere
[Typical tare with tiny lilac flowers and hairy fruit]

Vicia hybrida - Hairy Yellow Vetchling - near Tremp 2012

Vicia lutea - Yellow Vetch - Canto road 2013

Vicia onobrychiodes - Tor road

Vicia orobus - Troumouse lunch, several

Vicia pannonica - a few in Cerdagne

Vicia peregrina - Boixols 2010

Vicia pyrenaica - Pyrenean Vetch - locally common in France, e.g. Rioumajou and Gavarnie
[3-6 pairs of roundish leaflets and solitary bright violet flowers 16-25mm]

Vicia sativa - Common Vetch - scattered
[Familiar pink leafy vetch; 1-2 flowers together]

Vicia sepium - Bush Vetch - widespread, mainly France
[Typical vetch with ovate leaflets, heads of 2-6 dull bluish- purple flowers, each 12-15mm]

Vicia tenuifolia - Fine-leaved Vetch - Perbes and Tor, 2011
[Like *V. cracca* but flowers 12-18 not 8-12mm]

Vicia villosa - Fodder Vetch - Canto road 2013

Oxalidaceae

Oxalis acetosella - Wood Sorrel - Eyne in flower

[Trefoil leaves (acid-tasting), nodding white 5-petalled flowers]

Oxalis corniculata - Procumbent Yellow Sorrel - Canigou area 2012

Oxalis stricta - noted on Day 10, 2012

Geraniaceae

Erodium ciconium - Tremp area 2013

Erodium cicutarium - Common Stork's-bill - Segre meadows

[Typical stork's-bill with fern-like leaves, pink flowers and beaked fruit]

Erodium malacoides - Mallow-leaved Stork's-bill - lower altitudes in Spain 2011

Erodium petraeum - Rock Stork's-bill - Santa Engracia, Plata Verde, 2008

Geranium cinereum - 1 in flower Cirque de Gavarnie, 1 fine plant Troumouse

Geranium columbinum - Long-stalked Crane's-bill - Scattered records

[Narrow-lobed palmate leaves; 12-18mm flowers with pink un-notched petals]

Geranium dissectum - Cut-leaved Crane's-bill - scattered records

[Like latter, but with smaller flowers, notched petals]

Geranium lucidum - Shining Crane's-bill - day 11, 2012

Geranium molle - Dove's-foot Crane's-bill - noted in France

[From *G. dissectum* by its wedge-lobed leaves, more purplish- pink flowers (7-15mm)]

Geranium phaeum - Dusky Crane's-bill -Woods in France, e.g. Rioumajou and Gavarnie

[Perennial: pairs of blackish-purple to brownish-purple flowers, each 15-20mm]

Geranium purpureum - Little Robin - Day 1, 2013

Geranium pyrenaicum - Mountain Crane's-bill - widespread and common

[Rough grass. Close to *G. molle*, but flowers 15->20mm]

Geranium robertianum - Herb Robert - widespread in shade

[Aromatic, fern-like leaves, un-notched pink petals, orange pollen]

Geranium rotundifolium - Round-leaved Crane's-bill - scattered records, e.g. near Pont de Suert.

Not seen 2016. [Like *G. molle*, but shallowly-lobed, unnotched petals]

Geranium sanguineum - Bloody Crane's-bill - Tremp area

[Cut leaves, 3-4cm crimson flowers]

Geranium pratense - Meadow Crane's-bill - Tor, Eyne

[Perennial with well-cut leaves and bright violet-blue 25-30mm flowers]

Geranium sylvaticum - Wood Crane's-bill - widespread and locally common, e.g. Eyne and Aigues Tortes

[Shade/meadows: from *G. pratense* by its red-purple flowers 12-25mm]

Linaceae

Linum alpinum - Eyne

Linum bienne - Pale Flax - lunch site in Aragon

Linum catharticum - Fairy Flax - e.g. Perbes

[Tiny opposite-leaved white flax, typical round capsule]

Linum narbonense - Beautiful Flax - common at Perbes, and Canto road

[Tall blue flax 5-6cm flowers]

Linum suffruticosum ssp.differens - Pyrenean Flax - lower altitudes in Spain, e.g. Perbes

[Sprawling perennial, linear leaves, 2-3cm white flowers]

Linum strictum - Upright Yellow Flax - Salas

Linum trigynum - a flax - Montanana road, Tremp, Salas, 2013

Linum viscosum - Sticky Flax - Salas

[Sticky perennial, ovate-lanceolate leaves, pink flowers 25-35mm]

Rutaceae

Ruta chalepensis - Fringed Rue - Collegats

Euphorbiaceae

Euphorbia amygdaloides - Wood Spurge - woods, France

[Tall hairy perennial, reddish stems, capsule hairless and raylet leaves joined forming a cup]

Euphorbia characias - Large Mediterranean Spurge - several sites in Spain, e.g. Tor road

[Like Wood Spurge but more robust and with hairy capsule]

Euphorbia cyparissias - Cypress Spurge - widespread and common

[Patch forming perennial with linear leaves and yellowish bracts]

Euphorbia flavicoma - a spurge - Peyresourde and common in Neouvielle

Euphorbia helioscopia - Sun Spurge - Segre meadows 2013

[Familiar weedy spurge, toothed leaves]

Euphorbia hyberna - Irish Spurge - Mt.Louis, Gavarnie, locally common

[Perennial, leaves hairy beneath, fruit warty, ray-leaves not joined]

Euphorbia nicaeensis - a spurge - Fillols 2012

Euphorbia seguieriana - a spurge - roadside near Osseja, 2013

Euphorbia segetalis - a spurge - Ager lunch site 2010

Euphorbia peplus - Petty Spurge - noted in France 2013

Euphorbia exigua - Dwarf Spurge - Montanana road

Euphorbia serrata - a spurge - common in Spain

Mercurialis perennis - Dog's Mercury - woods, France

[Like perennial nettle, with erect spikes and dull leaves]

Simaroubaceae

Ailanthus altissima - Tree of Heaven - locally naturalised, e.g. Salas

[Suckering tree, alternate pinnate leaves (teeth have gland beneath)]

Polygalaceae

Polygala alpestris - Mountain Milkwort - alpine turf, Tor, Aigues Tortes, and Puymorens

[Typical blue milkwort, leaves increasing in size upward]

Polygala alpina - Alpine Milkwort - Tor 2016

Polygala comosa - Tufted Milkwort - scattered records (?)

[Leaves more even, and flowers lilac-pink 4-6mm long]

Polygala nicaeensis ssp.gerundensis - Nice Milkwort - Salas

[Perennial usually pink milkwort, bracts longer than flower stalks, flowers 9-11mm]

Polygala rupestris - Rock Milkwort - Tresp reservoir 2013

Polygala vulgaris - Common Milkwort - scattered

Polygala calcarea - Chalk Milkwort - Perbes

Hippocastanaceae

Aesculus hippocastanum - Horse Chestnut

[Popular 'conker' tree with large compound palmate leaves]

Coriariaceae

Coriaria myrtifolia - Mediterranean Coriaria - scrub and plantation edge, Tresp area. Surprisingly not seen 2016.

[Bush, opposite ovate leaves, small green flowers, fruit of 5 black achenes and fleshy red petals]

Anacardiaceae

Cotinus coggygria - Smoke Tree - planted, autoroutes

[Shrub with ovate untoothed leaves, feathery fruit-stalks]

Pistacia lentiscus - Mastic Tree - sub-Mediterranean areas 2011

[Evergreen shrub: pinnate leaves normally have no terminal leaflet]

Pistachia terebinthus - Terebinth - Montanana road, Canto road, near Tremp

Aceraceae

Acer campestre - Field Maple - Tor etc.

[Maple with blunt lobed leaves (latex in stalk), and erect flower-head]

Acer monspessulanum - Montpellier Maple - near Pont de Suert

[From other *Acer* by 3-lobed leaves, leathery, lobes untoothed]

Acer negundo - Box Elder - Hotel Angleterre car park!

Acer opalus - Italian Maple - Tor

[As Field Maple but latex absent in petiole]

Acer platanoides - Norway Maple - France

[Resembles sycamore, leaves 5-7 lobed and long-pointed lobes]

Acer pseudoplatanus - Sycamore – France

Aquifoliaceae

Ilex aquifolium - Holly - Rioumajou

Balsaminaceae

Impatiens balfourii - Kashmir Balsam - scattered records 2012

Impatiens glandulifera - Himalayan Balsam - stream at Fillols 2012

Buxaceae

Buxus sempervirens - Box - locally dominant as at Col de Perbes

[Evergreen bush: opposite untoothed leaves; 3-horned fruit]

Rhamnaceae

Frangula alnus - Alder Buckthorn

[Deciduous: shrub obovate shiny alternate untoothed leaves; 3mm green flowers; red berries turning black]

Rhamnus alaternus - Mediterranean Buckthorn - Santa Engracia area

[Evergreen shrub with glossy thick leaves and reddish berries]

Rhamnus alpinus - Alpine Buckthorn - noted on several days in France, e.g. Ossoue, Segre, and Eyne

Rhamnus cathartica – Buckthorn - Cerdagne

Rhamnus saxatilis - Rock Buckthorn - Gavarnie and Ossoue

Vitaceae

Vitis vinifera - Common Vine

[Familiar climber]

Tiliaceae

Tilia cordata - Small-leaved Lime

[Typical linden: heart-shaped pointed leaves, erect cymes & smooth fruit]

Tilia platyphyllos - Large-leaved Lime

[From latter by ribbed fruit on pendant cymes]

Malvaceae

Althaea cannabina - Montanana road near Tremp, Collegats

Althaea hirsuta - Rough Marsh Mallow - near Pont de Suert

Malva moschata - Musk Mallow - dry grass, roadsides, e.g. Val d'Aran
[3-6cm pale pink flowers solitary in axil of divided leaves]

Malva neglecta - Dwarf Mallow - Gavarnie

Malva sylvestris - Common Mallow - rough grass, widespread

[Familiar pink-purple biennial/perennial: roundish 3- 7 lobed/angled leaves]

Thymelaeaceae

Daphne cneorum - Garland-flower - alpine turf, Eyne, Andorra, Bonaigua, Vielha, and Aigues Tortes
[Evergreen prostrate bush, spoon-shaped leaves, pink fragrant flowers, var. *pygmaea*]

Daphne laureola - Spurge-laurel - in flower at Neouvielle

[Low evergreen rhododendron-like bush with berry fruit. Ssp. *philippi*]

Daphne mezereum - Mezereon - in flower at Neouvielle

[Deciduous bush: red short-stalked berries below]

Thymelaea calycina - Collegats

Thymelaea dioica - Canigou 2012

Thymelaea sanamunda - Salas

Thymelaea tinctoria - Ossoue

Hypericaceae

Hypericum maculatum - Imperforate St. John's-wort - Tor, in leaf

[Erect herbaceous St John's-wort, no translucent dots]

Hypericum perforatum - Perforate St John's-wort - widespread

[Similar to latter, but with translucent dots in leaves]

Hypericum richeri ssp. burseri - Alpine St John's-wort - Aigues Tortes and Eyne, in leaf

[From last 2 spp by having petals evenly covered in black dots.]

Hypericum nummularium - Western St John's-wort - in leaf in Ossoue valley, wet rock faces

Violaceae

Viola arvensis -Field Pansy - disturbed ground, Cerdagne

[Typical mainly white pansy, flowers 1-1.5cm across]

Viola cornuta - Horned Pansy - meadows, locally common as at Vielha tunnel, and Gavarnie

[Lilac or violet pansy: flower 20-35mm, spur 10-15mm]

Viola hirta - Hairy Violet - in leaf on day 8, 2012

Viola reichenbachiana - Early Dog Violet - Eyne 2016

Viola riviniana - Common Dog Violet - Eyne

Viola rupestris - Teesdale Violet - Recorded

Viola palustris - Marsh Violet - boggy turf, Troumouse valley, Vielha, and Aigues Tortes

[Stemless violet, leaves kidney-shaped; pale lilac unscented flowers, 3-angled capsule]

Viola pyrenaica - Pyrenean Violet - alpine turf, widespread, e.g. Vielha, Aigues Tortes, Segre, Val d'Eyne.

[No runners; shiny leaves]

Viola biflora - Yellow Wood Violet - in flower in Val d'Eyne, Segre, and Troumouse valley

Viola tricolor ssp. subalpina - Heartsease - scattered records, e.g. Val d'Eyne, Tor, Vielha

[Familiar bi- or tri-coloured pansy.]

Cistaceae

Cistus albidus - Toulouse area

Cistus salvifolius - Sage-leaved Cistus - Recorded

[Low shrub, with sage-like leaves and white flowers 3-5cm wide]

Cistus laurifolius - below Coll. Del Canto, in flower

Cistus monspeliensis - Narrow-leaved Cistus - Canigou 2012

Fumana ericoides - Salas

Fumana procumbens - Perbes

Helianthemum apenninum - White Rockrose - Ossoue valley

[Low undershrub, opposite leaves woolly beneath and white flowers]

Helianthemum canum ssp. piloselloides - Hoary Rockrose - Andorra, Canto road, Perbes, Ossoue

[As last but yellow flowers 8-15mm, lower leaves 0 stipules.]

Helianthemum nummularium ssp. glabrum - Common Rockrose - dry turf, widespread, yellow flowers, e.g. Tor, Segre, and numerous at Ossoue

Helianthemum nummularium ssp. pyrenaicum - pink flowers, e.g. Santa Engracia and Perbes, locally very common [Oblong leaves white beneath with flowers 12-20mm]

Cucurbitaceae

Bryonia cretica - White Bryony - Near La Seu d'Urgell

[Climber with mottled maple-like leaves opposite tendrils and greenish- white flowers]

Cactaceae

Opuntia sp. - St.Llorenç 2010, recorded 2012

Lythraceae

Lythrum salicaria - Purple Loosestrife - France, roadsides

Onagraceae

Epilobium angustifolium - Rosebay Willowherb - verges and margins

[Familiar herb: all leaves alternate, spike of pink flowers slightly asymmetric 2-3cm]

Epilobium anagallidifolium - Alpine Willowherb - wet gravel, e.g. Tor, 2013

[Creeping, most leaves opposite, regular flowers 6-9mm]

Epilobium alsinifolium - Chickweed Willowherb - wet flushes, Ossoue

Epilobium collinum - Tor

Epilobium hirsutum - Great Hairy Willowherb - en route to Toulouse

[Tall, spreading hairy, flowers 2-3cm but regular, lower leaves opposite]

Epilobium montanum - Broad-leaved Willowherb - scattered records, mostly in France,

e.g. Gavarnie, also Tor. Not seen 2016? [As last, but flower 12-20mm and most hairs appressed]

Epilobium alpestre - Whorled-leaved Willowherb - Day 12 in leaf, 2013

Oenothera biennis - Common Evening-primrose - roadsides

[Typical evening primrose, large 4-petalled yellow flowers]

Punicaceae

Punica granatum - Pomegranate - lower altitudes in Spain

Cornaceae

Cornus sanguinea - Dogwood - scrub at lower altitudes

[Shrub: opposite untoothed leaves, crimson twigs]

Araliaceae

Hedera helix - Ivy - Salas etc.

[Familiar evergreen climber with lobed leaves]

Apiaceae

Aethusa cynapium - Fool's Parsley - Tremp area 2012

Angelica razulii - scattered records in leaf

Angelica sylvestris - Wild Angelica - Valcebollere

Anthriscus sylvestris - Cow Parsley - Gavarnie etc.

Apium nodiflorum - Fool's Water-cress - Fillols 2012

Astrantia major - Great Masterwort - Tor

[Five-lobed leaves; dense pinkish umbels surrounded by long bracts]

Astrantia minor - Lesser Masterwort - Rioumajou 2012

Bupleurum baldense - a hare's-ear - Perbes and Montanana road

Bupleurum falcatum - Sickle Hare's-ear - lower altitudes in Spain, e.g. Montanana road

Bupleurum fruticosum - Shrubby Hare's-ear - Fillols and Tet Valley 2012

Carum carvi - Caraway - in leaf

Caucalis platycarpus - Small Bur-parsley - lower Santa Engracia track, 2012

Chaerophyllum temulem - Rough Chervil - common in France, also noted in Spain

Chaerophyllum aureum - Vielha tunnel, and France

Chaerophyllum hirsutum - Hairy Chervil - common in France, also Tor

Conopodium majus - Pignut - widespread, e.g. Segre [2-3 pinnate hairless tuberous perennial, leaflets linear and lower part of stem leafless; delicate white umbels]

Conopodium pyrenaicum - Conopodium - Andorra

[As latter but leafy to stem base and leaflets ovate]

Daucus carota - Wild Carrot - Santa Engracia

[Familiar coarse herb, divided bracts, bur fruit]

Dethawia tenuifolia - in leaf Ossoue, 2016

Endressia pyrenaica - 2 near Mont-Louis

Eryngium bourgatii - Pyrenean Eryngo - between Arreau and Bagnères

[As next, but heads 15-25mm, bluish with 10-15 bracts]

Eryngium campestre - Field Eryngo - scattered records in leaf

[Greenish spiny perennial, heads 10-15mm (5-7 bracts), basal leaves 3-lobed]

Foeniculum vulgare - Fennel - lower altitudes

[Feathery foliage, yellow umbels, aniseed aroma]

Heracleum sphondylium ssp. montanum - Hogweed - common and widespread

[Coarse bristly perennial, large dirty white umbels, outer petals longer, medium altitudes]

Heracleum sphondylium ssp. pyrenaicum - higher altitudes

Laserpitium latifolium - Broad-leaved Sermountain - Segre, and Tor

Laserpitium siler - Vielha tunnel, Val d'Aran, below Bonaigua, Ossoue, and Aragon

Laserpitium nestleri ssp. flabellatum - Segre, Gaudi's Inspiration

Laserpitium gallicum - Gaudi's Inspiration 2011

Ligusticum lucidum - a lovage - in leaf Segre, etc.

Meum athamanticum - Baldmoney - alpine turf, locally common, e.g. Aigues Tortes, Puymorens, Bonaigua, and Vielha [Aromatic, white umbels, 3-4 capillary pinnate]

Molopospermum peloponnesiacum - this fine umbellifer was in flower at Aigues Tortes, Val d'Eyne, and Segre

Myrrhis odorata - Sweet Cicely - below Tourmalet

Orlaya grandiflora - Orlaya - locally common at lower altitudes in Spain

[Annual with 2-3 pinnate leaves and white umbels with outer petals 8 times longer than others]

Peucedanum ostruthium - Masterwort - Common in leaf Aigues Tortes and Val d'Eyne
Pimpinella major - Greater Burnet-saxifrage - Gavarnie etc., pink flowers
 [Tall 1-pinnate perennial (3-9 ovate segments), angled hollow stem; white umbels, bracts/bracteoles]
Pimpinella saxifraga - Burnet Saxifrage - Gavarnie 2013
 [Similar but solid stems and 7-15 leaf segments]
Prangos trifida - Segre, in leaf, 2012
Sanicula europaea - Sanicle - woods, Portillon
 [Palmate-lobed glossy leaves & dense sub-umbels]
Scandix pecten-veneris - Shepherd's-needle - Boixols 2010
Seseli libanotis - Moon Carrot - Ossoue valley 2012
 [From *Daucus* by pure white umbels, bracts undivided; stock covered in fibres]
Seseli montanum - Col de Perbes
Seseli nanum - this species Canto road 2013?
Tordylium apulum - recorded 2011 and 2012
Torilis arvensis - Spreading Hedge-parsley - recorded
Torilis nodosa - Knotted Hedge-parsley - Toulouse 2013
Torilis japonica - Upright Hedge-parsley - St.Llorenç 2010. 2012 in France.
Trinia glauca - Honewort - Perbes

Pyrolaceae

Moneses uniflora - One-flowered Wintergreen - a few in Rioumajou valley, in fruit, 2011
Orthilia secunda - Nodding Wintergreen - in bud Troumouse road
Pyrola chlorantha - Yellow Wintergreen - a few at Rioumajou 2011
Pyrola media - Intermediate Wintergreen - Rioumajou
Pyrola minor - Lesser Wintergreen - Eyne, Troumouse road
 [Typical *Pyrola*: rosette of elliptical leaves; unranked raceme of white to pink globose 5-7mm flowers]
Pyrola rotundifolia - Round-leaved Wintergreen - Val d'Eyne 2011, in bud

Monotropaceae

Monotropa hypopitys - Yellow Bird's-nest - 2009:- 2 at the lunch site in Spain on day 9. Not seen at our traditional site near Pont de Suert for many years now. 2010 found at a new site in Spain, Ordesa area. 2011:- 1 at Salas.

Ericaceae

Arbutus unedo - Strawberry Tree - St.Llorenç 2009
Arctostaphylos uva-ursi - Bearberry - scattered records at higher altitudes, e.g. Aigues Tortes and Andorra
 [Prostrate evergreen mat-forming shrub: untoothed leaves; red berries]
Calluna vulgaris - Ling - moors & open woods, e.g. lower Tor road, Puymorens, Segre
 [Familiar heather, differing from an *Erica* by its overlapping scale-like leaves]
Erica arborea - Tree Heath - Numerous, gone over, Luz valley, 2011
Erica tetralix - Cross-leaved Heath - bogs, Vielha tunnel, in bud
 [Grey undershrub, needle leaves in 4s, drooping bells]
Loiseleuria procumbens - Creeping Azalea - Envalira, very many in flower this year
Rhododendron ferrugineum - Alpenrose - alpine slopes, much in leaf but also many in flower
 [Evergreen shrub to 1m, elliptic shiny leaves (rusty beneath); deep pink bell-like flowers to 15mm]
Vaccinium myrtillus - Bilberry - moors and open woods, France, in leaf at Vielha, Aigues Tortes
 [Deciduous shrub, oval toothed leaves (mid-green); blue-black berries]

Primulaceae

Anagallis arvensis - Scarlet Pimpernel - lower altitudes in Spain

[Familiar red-flowered weed, although mostly blue flowered form seen]

Anagallis foemina - Blue Pimpernel - definite *foemina* near Pont de Suert 2012

Androsace carnea ssp. *laggeri* - Pink Rock-jasmine - alpine turf, Bonaigua, and Andorra, fine at Troumouse, Tourmalet [Low tufted perennial, dense rosettes of linear leaves; leafless stem with umbel of 2-8 pink flowers]

Androsace vandellii - Aigues Tortes, 18 cushions in good flower

Androsace ciliata - a rock-jasmine - Col de Tourmalet 2008

Androsace villosa - a rock-jasmine - Ossoue Valley and Troumouse

Coris monspeliensis - Coris - near Tremp and Santa Engracia

[Linear revolute leaved perennial, woody at base; dense spike of irregular blue or pink flowers]

Lysimachia ephemerum - stream banks at Salas, in bud

Lysimachia nemorum - Yellow Pimpernel - Gavarnie and Rioumajou

[Creeping perennial, opposite lanceolate leaves, saucer-like yellow flowers 6-8.5mm]

Primula elatior - Oxlip - Eyne

[Leaves abruptly narrowed to stalk, pale yellow flowers in 1-sided cluster]

Primula farinosa - Bird's-eye Primrose - damp turf, Vielha tunnel and Gavarnie area

[Leaves white-mealy beneath; lilac-pink umbel (8-16mm)]

Primula hirsuta - Red Alpine Primrose - rocks, fine flowering rosettes at Tentes, also Troumouse, Neouvielle [As last but sticky hairy, not mealy; leaves toothed; 1-15 pink-purple flowers 2-3cm]

Primula latifolia - Viscid Primrose - in flower at Eyne and Err-Puigmal

Primula integrifolia - Entire-leaved Primrose - wet turf, Bonaigua, Eyne, Tourmalet, Neouvielle

[From last by untoothed leaves, 1-3 rosy flowers 15-25mm]

Primula veris - Cowslip - widespread in flower

[From Oxlip by fragrant deeper yellow flowers. Ssp. *columnae* has leaves white beneath]

Samolus valerandi - Brookweed - Salas 2012

Soldanella alpina - Alpine Snowbell - Bonaigua, Tourmalet, Neouvielle

[All leaves basal, heart-shaped; flowers deeply-fringed, violet]

Vitaliana primuliflora ssp. *canescens* - Vitaliana - stony ground, Port de la Bonaigua, locally common

[Mat-forming or tufted, all leaves basal and linear; 12-18mm yellow flowers.]

Plumbaginaceae

Armeria maritima ssp. *alpina* - Mountain Thrift - in leaf

[Typical thrift: hairless linear leaves. Head 18-30mm.]

Armeria alliacea - scattered records, e.g. Vielha

Oleaceae

Fraxinus excelsior - Ash - woods, widespread

[Familiar tree with opposite pinnate leaves and black buds]

Jasminum fruticans - Wild Jasmine - Gaudi's Inspiration

Ligustrum vulgare - Privet - base-rich scrub, scattered records

[Familiar semi-evergreen shrub]

Olea europaea - Olive - lower sites in Spain

Gentianaceae

Blackstonia perfoliata - Yellowwort - Collegats

Centaurium erythraea - Common Centaury - Montanana road and near Tremp 2011

Centaurium pulchellum - Lesser Centaury - Montanana road 2012

Gentiana lutea - Greater Yellow Gentian - locally common in leaf and bud
 [Tall perennial: oval, blue-green ribbed leaves; starry yellow flowers in whorls]
Gentiana acaulis - Trumpet Gentian - scattered records, locally common e.g. Andorra and Eyne
 [Low tufted perennial: grey-green elliptical leaves; blue stalked trumpet flowers 4-7cm (green spotted inside)]
Gentiana alpina - Southern Gentian - acid alpine turf, Troumouse and Tentés
 [As last but round-oval leaves, flowers 4cm and hardly stalked]
Gentiana cruciata - Cross Gentian - In leaf along Cirque de Gavarnie track
Gentiana pyrenaica - Pyrenean Gentian - Andorra, also Eyne, and above Mt. Louis
Gentiana verna - Spring Gentian - scattered records, montane turf, numerous above Tor, also Andorra, and Ossoue. Locally abundant. [Bright blue, deeply 5-lobed flowers; bright green lanceolate leaves]
Gentiana brachyphylla - 1, Ossoue
Gentiana pumila delphinensis - growing wild in the Tourmalet botanic garden, 2009
Gentianella campestris - Field Gentian

Apocynaceae

Nerium oleander - Oleander - en route to Canigou, 2012

Asclepiadaceae

Vincetoxicum hirundinaria ssp. intermedium - Swallow-wort - widespread
 [Opposite heart-shaped leaves, latex, yellow flower clusters]
Vincetoxicum nigrum - Black Swallow-wort - Collegats Gorge

Rubiaceae

Sherardia arvensis - Field Madder - near Tremp
Crucianella angustifolia - Montanana road 2012
Galium album - Hedge Bedstraw - widespread
 [Scrambler, whorls of 6-8 leaves, smooth stem]
Galium aparine - Cleavers - lower Tor road
Galium pyrenaicum - Troumouse (?)
Galium odoratum - Sweet Woodruff - woods in France, e.g. Rioumajou
 [Erect, whorls of 6-9 leaves, forming ruff round white flowers]
Galium v. verum - Lady's Bedstraw - scattered in leaf
 [Whorls of 8-12 dark green linear leaves, terminal yellow inflorescence]
Galium caespitosum - Troumouse
Galium cometerhizon - Gavarnie area 2013
Galium pumilum - scattered records, e.g. Vielha tunnel
Galium maritimum - a bedstraw - hirsute, with small red flowers, a pleasing addition to the list, Collegats, and near Pont de Suert
Galium spp. - others not identified
Cruciata glabra - a crosswort - scattered records, e.g. Eyne
 [Like next but no bracts on peduncle]
Cruciata laevipes - Crosswort - widespread
 [Leaves in whorls of 4, with yellow flowers at base and 2 bracts on peduncle]
Rubia peregrina - Wild Madder - Pont de Suert
 [Like coarse evergreen cleavers with berries]
Asperula aristata scabra - a woodruff - Montanana road
Asperula cynanchica - Squinancywort - Fillols and Tor, 2012
Asperula hirta - a woodruff - Ossoue

Convolvulaceae

Cuscuta epithymum - Common Dodder - locally common, Montanana road, Perbes

Cuscuta europaea - Greater Dodder - probably this species parasitic on *Urtica*, Tor, 2012

Cuscuta spp. - Perbes and below Espot, 2012

Calystegia sepium - Hedge Bindweed

[Typical large white bindweed]

Convolvulus arvensis - Field Bindweed - scattered at lower altitudes

[Familiar pink perennial; arrow-shaped leaves]

Convolvulus cantabrica - Pink Bindweed - lower altitudes in Spain, e.g. Montanana road and Canto road

[Typical pink bindweed flower but erect, with linear/elliptic leaves]

Boraginaceae

Heliotropium europaeum - Heliotrope - Tremp area 2012

Neotostema apulum - Yellow Gromwell - in fruit, Montanana road, 2012

Buglossoides arvensis - Corn Gromwell - Segre 2013

Lithospermum officinale - Common Gromwell - near Pont de Suert, and Segre

[Tall rough hairy perennial: many lanceolate leaves, whitish 4-6mm flowers, shining white very hard nutlets]

Lithodora fruticosa - Montanana road

Onosma bubanii - a Golden-drop - Baixols road 2010, endemic to central Spanish Pyrenees

Echium vulgare - Viper's Bugloss - widespread and common

[Bristly bright blue biennial]

Pulmonaria affinis - a lungwort - in flower at Eyne, Vielha, Rioumajou

[Typical lungwort: rough, white-spotted leaves ca 2-6x long as broad]

Pulmonaria angustifolia - Narrow-leaved Lungwort - near Mont-Louis, and Vielha

Pulmonaria longifolia - Long-leaved Lungwort - Neouvielle, in leaf, 2011

[from last by narrower leaves ca 6-9 times as long as broad]

Pulmonaria montana - Eyne, higher altitudes, 2013

Anchusa arvensis - Bugloss - Segre 2013

Anchusa italica - Italian Bugloss - 1 plant, arable weed in Spanish lowlands 2008

Asperugo procumbens - Madwort - Tor 2013

Symphytum officinale - Common Comfrey - Segre

Myosotis alpestris - Alpine Forget-me-not - locally common in alpine turf

[Perennial blue forget-me-not, 9mm flowers]

Myosotis arvensis - Common Forget-me-not - widespread

[Low 3mm blue-flowered biennial forget-me-not.]

Myosotis decumbens - a forget-me-not - noted in 2009

Myosotis scorpioides - Water Forget-me-not - Eyne village 2013

Myosotis sylvatica - Wood Forget-me-not - Rioumajou

Cynoglossum creticum - Blue Hound's-tongue - near Tremp, in fruit, 2013

[dark-veined pale blue flowers]

Cynoglossum officinale - Common Hound's-tongue - seen in France

[Grey soft-hairy leaves, smells of mice; maroon flowers]

Verbenaceae

Verbena officinalis - Vervain - e.g. France, and Tor road, 2013

[Stiff erect perennial with opposite pinnately-lobed leaves and spikes of pink-lilac flowers]

Lamiaceae

Ajuga chamaepitys - Ground Pine - near Salas

Ajuga pyramidalis - Pyramidal Bugle - montane turf, Eyne, Bonaigua, Puymorens, and Vielha
[Creeping perennial: dense spike of pale violet 1-lipped flowers]

Ajuga reptans - Bugle - France and Vielha

Teucrium chamaedrys - Wall Germander - Spain

[Low woody-based, with shiny toothed leaves; purple 1-lipped flowers 9-16mm]

Teucrium polium - Felty Germander - in leaf, Montanana road and Perbes

[Densely felted subshrub: 1-lipped white flowers; leaves wrinkled]

Teucrium aureum - Baixols 2010, Canigou 2012

Teucrium botrys - Cut-leaved Germander - Gaudi's Inspiration 2010

Teucrium pyrenaicum - Pyrenean Germander - Ossoue, in leaf, and Perbes

[Round-oval (not oblong) leaves; 1-lipped white flowers]

Teucrium montanum - Mountain Germander - Montanana road, in leaf

Teucrium scorodonia - Wood-sage - in leaf at Portillon

[Sage-like leaves, 9mm pale greenish-yellow 1-lipped flowers]

Marrubium vulgare - White Horehound - near Tresp

[White-downy thyme-scented herb with roundish leaves and white flowers]

Sideritis hirsuta - Montanana road and Perbes

[Low scented perennial; yellow flowers 8-10mm, oblong leaves]

Sideritis hyssopifolia - Ossoue valley, in fruit

Phlomis herba-venti - a Jerusalem-sage - Baixols, in leaf, 2010

Phlomis lychnitis - a Jerusalem-sage - Montanana road, in full flower

[Evergreen linear-leaved white felted bush with yellow flowers]

Galeopsis angustifolia - Red Hemp-nettle - near Pont de Suert 2011

Galeopsis ladanum - Large Pink Hemp-nettle - Tor road

Galeopsis segetum - Downy Hemp-nettle - Fillols and Vielha 2012

Galeopsis tetrahit - Common Hemp-nettle - noted in leaf

Lamium album - White Dead-nettle - scattered records

Lamium amplexicaule - Henbit Dead-nettle - scattered records 2012

Lamium maculatum - Spotted Dead-nettle - France

[Perennial pink dead-nettle: curved corolla tube and white blotch on leaves]

Lamium purpureum - Red Deadnettle - Gavarnie area

Lamium galeobdolon - Yellow Archangel - Rioumajou and below Tourmalet

Ballota nigra - Black Horehound - France, 2013

[Foetid; coarse-toothed leaves, small purple flowers. ssp. *foetida*]

Stachys palustris - Marsh Woundwort - La Guingeta 2013, a new record for Lerida Province?

Stachys officinalis - Betony - Gavarnie, in leaf

[From last by red-purple flowers 12-18mm]

Stachys alopecuros - Ossoue 2012

Stachys recta - Perennial Yellow Woundwort - dry rocky places, e.g. Segre, Ossoue

[Perennial, oblong-oval leaves; pale yellow 15-20mm flowers, purple streaked]

Stachys sylvatica - Hedge Woundwort - Recorded in 2013

[Pungent smelling perennial: no rosette, cordate leaves; red-purple flowers 13-18mm]

Glechoma hederacea - Ground Ivy

[Low creeping perennial smelling of blackcurrants, round bluntly toothed leaves and pale violet flowers 15-22mm]

Prunella grandiflora ssp. *grandiflora* - Large Self-heal - on calcareous soil, France

Prunella grandiflora ssp. *pyrenaica* - Large Self-heal - on acid soil, France

[Typical scentless self-heal with deep violet flowers 25-30mm]

Prunella laciniata - Cut-leaved Self-heal - Montanana road

[Typical self-heal with pinnately-lobed leaves and cream flowers]

Prunella vulgaris - Self Heal - France, e.g. Eyne

Satureja montana - Winter Savory - locally common in leaf, e.g. Perbes

[Wide-branched aromatic under-shrub with pink flowers]

Acinos alpinus - Alpine Calamint - Aigues Tortes, Gavarnie, etc.

[Decumbent perennial: 10-14mm violet flowers marked white.]

Acinos arvensis - Basil Thyme - scattered records, e.g. Tor, Santa Engracia track, 2013

Clinopodium vulgare - Wild Basil - Gavarnie

Origanum vulgare - Marjoram - scattered records in leaf

[Aromatic widely branched herb: oval untoothed leaves with purple bracts]

Thymus nervosus - possibly this species present too

Thymus pulegioides - Large Wild-thyme - locally numerous

[Typical low creeping aromatic thyme; flowers 6mm]

Thymus serpyllum - Wild Thyme - widespread

[Similar but flowers 3-6mm]

Thymus vulgaris - Thyme - Canto road etc.

Mentha arvensis - Corn Mint

Mentha aquatica - Water Mint - noted in leaf, Eyne, Salas and Tor

[Typical mint with globular terminal flowerhead]

Mentha longifolia - Horse Mint - in leaf, Tor

[Differs from latter in its elongate terminal spike and less pleasant aroma]

Rosmarinus officinalis - Rosemary - Montanana road, not seen 2016?

[Familiar aromatic shrub; linear revolute leaves]

Lavandula angustifolia - Common Lavender - sub-Mediterranean sites in Spain

[Typical aromatic narrow-leaved lavender]

Lavandula stoechas - French Lavender - Fillols 2012

Salvia verbenaca - Wild Clary - near Tremp etc.

Salvia officinalis - Wild Sage - Tremp Reservoir 2013

Salvia pratensis - Meadow Clary - widespread and common

[From *S. verbenaca* by unlobed leaves and flowers 20-30mm]

Salvia sclarea - Clary - near Montanana 2010

[From last by big lilac/white bracts and lilac flowers]

Solanaceae

Atropa belladonna - Deadly Nightshade - Portillon

Hyoscyamus niger - Black Henbane - Spain

[Irregularly lobed leaves, pale yellow flowers (purple veins)]

Solanum dulcamara - Bittersweet - Recorded

[Scrambler, often lobed leaves, purple flowers, column of anthers]

Solanum nigrum - Black Nightshade

Buddlejaceae

Buddleja davidii - Buddleia - Gave de Gavarnie valley

[Familiar shrub: opposite lanceolate leaves, long lilac flower-panicles]

Scrophulariaceae

Verbascum lychnitis - White Mullein - verges in France [Mealy-white mullein: angled stem and flower-stalks

6-11mm; mostly yellow-flowered, white form seen]

Verbascum pulverulentum - Hoary Mullein - verges, autoroutes, locally very common

[As White Mullein (woolly with yellow candelabra inflorescence) but flower-stalks 2-5mm]
Verbascum thapsus - Aaron's Rod – scattered records
 [Familiar woolly mullein with spike-like inflorescence, winged stem and yellow flowers]
Verbascum nigrum - Dark Mullein
Verbascum blattaria - Moth Mullein - several at Salas
Verbascum boerhavii - a mullein - Segre 2013
Verbascum sinuatum - Canto road and near Tremp 2013
Scrophularia auriculata - Water Figwort - Noted in France, 2012
Scrophularia canina - French Figwort - Vielha and Gavarnie area
 [Typical figwort flowers, but narrow-pinnate lobed leaves]
Scrophularia nodosa - Common Figwort - France, day 2, 2012
 [Typical brown figwort: 4-angled stem, 2-serrate, cordate hairless leaves]
Scrophularia alpestris - a Figwort - Troumouse
Scrophularia pyrenaica - a figwort - Tor
Anarrhinum bellidifolium - Tor
Antirrhinum latifolium - a Snapdragon - locally common in Spain
 [Yellow flowers]
Antirrhinum majus - Common Snapdragon - local in Spain, e.g. near Pont de Suert
 [Typical pink snapdragon: flowers 33-45mm]
Antirrhinum molle - Soft Snapdragon - Collegats
 [Dwarf, shrubby, softly downy, with white flowers 25-35mm]
Antirrhinum sempervirens - Rock Snapdragon - Neouvielle 2009
 [Differs in all leaves opposite, leathery; flowers white 20-25mm]
Chaenorhinum minus - Small Toadflax - recorded
 [Low annual, oblong leaves; lilac toadflax flowers 6-9mm]
Chaenorhinum organifolium - locally common in Ossoue Valley and Collegats
Misopates orontium - Weasel's Snout - near Pont de Suert 2013
Asarina procumbens - Creeping Snapdragon - Segre etc.
Linaria alpina - Alpine Toadflax - local but widespread, e.g. Bonaigua, Puymorens, Andorra, Gavarnie area [Low glaucous toadflax, linear-oblong leaves and 13-22mm violet flowers, yellow palate, also pure blue form]
Linaria angustissima - Common Toadflax - this species at Segre 2016
Linaria micrantha - recorded in France 2012
Linaria repens - Pale Toadflax - recorded
 [Erect greyish toadflax: lower leaves whorled, white or pale lilac flowers]
Linaria supina - Pyrenean Toadflax - Ossoue
 [Decumbent linear-leaved toadflax, yellow flowers with long spur]
Linaria sp. - a tall yellow flowered species in the La Seu d'Urgell area, 2013
Cymbalaria muralis - Ivy-leaved Toadflax - Arreau
Digitalis lutea - Small Yellow Foxglove - Collegats
 [Nearly hairless yellow foxglove; dense spikes of pale tubular flowers]
Digitalis purpurea - Common Foxglove - France and below Bonaigua, and Vielha
 [Familiar downy purple foxglove]
Erinus alpinus - Fairy Foxglove - locally abundant in France, and below Bonaigua
 [Low perennial: leaves obovate and toothed, purple flowers (5 notched lobes)]
Veronica alpina - Alpine Speedwell - Vielha 2012
Veronica anagallis-aquatica - Blue Water Speedwell
 [Fleshy, opposite long-lanceolate leaves (clasping); opposite stalked spikes of blue flowers]
Veronica aphylla - Leafless-stemmed Speedwell - Tentes 2011
Veronica austriaca - Large Speedwell - Canto road etc.
 [Hairy, leaves ovate-oblong.]

Veronica prostrata - Gavarnie area, Perbes, Aigues Tortes
Veronica beccabunga - Brooklime - Eyne, Tor, Aigues Tortes and Rioumajou
 [Hairless & fleshy with thick oblong leaves]
Veronica bellidiodoides ssp. lilacina- Violet Speedwell - acid turf, e.g. Bonaigua
 [Erect, tufted, basal rosette; lilac terminal flower-cluster]
Veronica chamaedrys - Bird's-eye Speedwell - widespread and locally common
 [Like Large Speedwell, but smaller with lines of hairs on the stem]
Veronica cymbalaria - White Speedwell - 2013
Veronica fruticans - Rock Speedwell - *Pulsatilla rubra* site
 [Woody-based, blue flowers with red eye]
Veronica officinalis - Heath Speedwell - Portillon
 [Hairy, creeping; spikes of lilac-blue flowers]
Veronica ponae - Spiked Pyrenean Speedwell - France, e.g. Vielha and Gavarnie
 [Like elegant Bird's-eye, but single loose terminal spike]
Veronica serpyllifolia ssp. humifusa- Thyme-leaved Speedwell - moist alpine turf
 [creeps, rooting at nodes, often hairless & blue flowers]
Veronica serpyllifolia ssp serpyllifolia - Thyme-leaved Speedwell
 [white flowers veined blue - grew where soil disturbed]
Veronica arvensis - Wall Speedwell - locally very common
Veronica persica - Common Field-speedwell - recorded
Veronica hederifolia - Ivy-leaved Speedwell - France
Melampyrum sylvaticum - Wood Cow-wheat - Portillon
Melampyrum pratense - Common Cow-wheat - woods and peaty ground, France
 [Annual: leaves untoothed; 1-sided spike, tubular yellow flowers]
Euphrasia alpina - Alpine Eyebright - Ossoue
Euphrasia hirtella - an eyebright
 [Typical eyebright, white with violet lines]
Euphrasia nemorosa - Wind Eyebright - Troumouse 2012
Euphrasia rostkoviana - an eyebright
Euphrasia stricta - an eyebright - Tor 2016
Bartsia alpina - Alpine Bartsia - Vielha tunnel
 [Opposite-leaved perennial: downy, dark-purple 2-lipped flowers (15-20mm)]
Pedicularis comosa - Crested Lousewort - numerous near Mont-Louis
Pedicularis foliosa - Leafy Lousewort - Vielha tunnel and Tor [Very hairy flower heads. Differs in having
 leaf-like bracts, 25mm yellow flowers with upper lip rounded]
Pedicularis mixta - a lousewort - several at Vielha tunnel
 [Pink lousewort, flowers =18mm (crimson beak and calyx woolly)]
Pedicularis pyrenaica - Pyrenean Lousewort - Andorra
 [Very like dull pinkish-purple P. mixta, but glabrous calyx]
Pedicularis verticillata - Whorled Lousewort - near Eyne, and above Tor, damp pastures
 [From other pink louseworts by leaves in whorls of 3-4 and upper lip rounded (not beaked/toothed)]
Pedicularis sylvatica - Common Lousewort - Vielha tunnel, etc.
Rhinanthus angustifolius - a Yellow Rattle
Rhinanthus minor -Yellow Rattle - widespread, e.g. Espot
 [Typical yellow rattle: yellow with violet tip, inflated fruit]
Rhinanthus mediterraneus - a Yellow Rattle - widespread, e.g. Segre = *Rhinanthus pumilus*

Globulariaceae

Globularia cordifolia - Matted Globularia - scattered records, e.g. Perbes
 [Mat-forming, creeping under-shrub, leaves basal, spatulate and notched; heads globular 1-2cm and
 lilac- or grey-blue]

Globularia nudicaulis - Leafless-stemmed Globularia - Rioumajou, Aigues Tortes, and Ossoue
[Herb: leaves all basal, oblanceolate, blunt; blue heads 15-30mm]

Globularia repens - a globularia - scattered records, e.g. Gavarnie and Perbes
[From *G. cordifolia* by pointed leaves]

Globularia vulgaris - Common Globularia - Tor in flower, Perbes and Santa Engracia area, over

Gesneriaceae

Ramonda myconi - Ramonda - rock crevices, locally common in Spain and especially in France, in fine flower [Flat rosettes of toothed oval corrugated leaves, rusty-hairy beneath; blue-violet 2-3cm 5-lobed flowers]

Orobanchaceae

Orobanche alba - Thyme Broomrape - scattered records, e.g. Ossoue

Orobanche amethystea - on *Eryngium campestre*, Montanana road, over

Orobanche artemisiae-campestris - a broomrape - 2+ on *Santolina chamaecyparissus* at Baixols, 2010

Orobanche gracilis - Slender Broomrape - on legumes, superb examples Montanana road
[Yellow/red broomrape, flowers shining dark red inside and 15-25mm]

Orobanche caryophyllacea - Bedstraw Broomrape - 1 below Tor 2011

Orobanche minor - Common Broomrape - Gaudi's Inspiration

Orobanche haenseleri - parasitic on *Helleborus* near Pineta section of Ordesa, several in fine flower 2010

Orobanche hederæ - Ivy Broomrape - 2009 and 2010:- many parasitic on *Hedera helix* at St.Llorenç, but not recorded for Lerida province in Flora Iberica. Also Santa Engracia in 2008. Collegats in 2016.

Orobanche rapum-genistae - Greater Broomrape - on *Cytisus purgans* at Segre

Lentibulariaceae

Pinguicula grandiflora - Large-flowered Butterwort - wet rocks, e.g. Tor, Vielha, and Gavarnie
[Rosette like (edges inrolled); stem with 2-lipped violet flowers 25-35mm (10-12mm spur)]

Pinguicula vulgaris - Common Butterwort - wet rocks/bogs, e.g. Mt.Louis area
[As last but flowers 15-22mm with 6-8mm spur]

Plantaginaceae

Plantago lanceolata - Ribwort Plantain - widespread
[Familiar lanceolate plantain; anthers yellowish]

Plantago major - Rat's-tail Plantain - scattered records
[Cosmopolitan broad-leaved weed, long spikes]

Plantago maritima ssp.serpentina - Sea Plantain - e.g. Tremp

Plantago alpina - Alpine Plantain - Bonaigua, Gavarnie area

Plantago media - Hoary Plantain - meadows
[Downy grey oval leaves; anthers lilac]

Plantago holosteum - Segre

Plantago coronopus - Buck's-horn Plantain - lunch on the arrival day 2011

Plantago sempervirens - Montanana road, Perbes, Aragon lunch site

Plantago afra - lower altitudes in Spain 2011

Plantago albicans - Silvery Plantain - lower Santa Engracia track

Plantago monosperma - a plantain - Upper Val d'Eyne

Plantago loeflingii - Canto road last stop 2013

Caprifoliaceae

Lonicera etrusca - Etruscan Honeysuckle - Canto road etc., 2013

[Climbing deciduous honeysuckle with leaf-pairs fused below stalked flower-heads]

Lonicera periclymenum - Common Honeysuckle - Pont de Suert

[Familiar deciduous climber, leaves not fused in pairs]

Lonicera pyrenaica - Pyrenean Honeysuckle - common in Ossoue valley

[Hairless bush, blue-green leaves quite leathery; pairs of regular white flowers and red berries]

Lonicera nigra - Black-bellied Honeysuckle - Eyne

Lonicera alpigena - Alpine Honeysuckle - Eyne

Lonicera xylosteum - Fly Honeysuckle - scattered records, e.g. Eyne, Segre

[Shrub to 3m, opposite hairy leaves, white 2-lipped tubular flowers]

Sambucus ebulus - Dwarf Elder - scattered, e.g. Salas, a few in flower this year

[Erect herb, opposite pinnate leaves; white flowers, purple anthers]

Sambucus nigra - Elder - widespread

[Familiar shrub; yellowish-white anthers and black fruit]

Sambucus racemosa - Red-berried Elder - e.g. Aigues Tortes, Tor, Eyne

[From last by pyramidal clusters of yellowish-white flowers; berries shiny red]

Viburnum lantana - Wayfaring Tree - scattered records, e.g. Eyne

[Like opposite-leaved white beam, heads of black berries (red at first)]

Viburnum opulus - Guelder-rose - near Llavorsi 2013

Viburnum tinus - Laurustinus - St.Llorenç 2010

Valerianaceae

Centranthus lecoqii - a red valerian - lower altitudes in Spain

[Similar to next but leaves only 4-6mm wide; stem unbranched]

Centranthus ruber - Red Valerian - scattered records in Spain, and France, roadsides

[Familiar garden plant, with undivided leaves (1-5cm wide) spurred red flowers]

Valeriana montana - a valerian - Segre, Rioumajou, Ossoue

[As other *Valeriana* spp. but all leaves undivided]

Valeriana officinalis - Common Valerian - verges, shade and meadows

[Opposite pinnate leaves and dense heads of pale pink flowers.]

Valeriana pyrenaica - Pyrenean Valerian - damp meadows/shade, locally common in France

[From last by basal leaves oval and heart-shaped]

Valeriana tripteris - Three-leaved Valerian - scattered records, e.g. Eyne and Segre

[Short valerian, basal leaves undivided; trefoil on stem]

Valeriana tuberosa - a valerian - Perbes, in fruit

Valeriana dioica - Marsh Valerian - Mt. Louis meadows 2013

Valerianella locusta - Common Corn Salad - Tor, this species?

Valerianella rimosa - Broad-fruited Corn-salad - Tor and Ossoue? = *Valerianella dentata*

[Regular-forking lilac-pink annual, narrow leaves, globose heads; fruit ovoid]

Dipsacaceae

Dipsacus fullonum - Common Teasel - verges

[Familiar tall biennial: spiny lilac heads and opposite leaves prickly on the lower midrib]

Cephalaria leucantha - in bud near Pont de Suert, 2013

Knautia arvensis - Field Scabious - widespread

[Typical scabious: 4-lobed flowers; upper leaves pinnate-lobed]

Knautia lebrunii - Vielha, in bud, 2013

Knautia nevadensis - a wood scabious - Tor and Canto road

Knautia spp. - one or two other species possibly in France

Lomelosia pulsatilloides macropoda - a scabious - Montanana road, endemic

Lomelosia stellata - a scabious - Montanana road and Santa Engracia track, inflated papery fruits

Scabiosa columbaria - Small Scabious - scattered , e.g. Gavarnie area

Scabiosa atropurpurea - Mournful Widow - St-Llorenç 2010

Campanulaceae

Campanula glomerata - Clustered Bellflower - Tor road 2012

[Lance-leaved perennial with tight heads of violet bells, each 15-25mm]

Campanula hispanica ssp. catalanica - Spanish Bellflower - Gaudí's Inspiration

[Graceful perennial, lance-leaved (crowded below), blue bells 10-14mm in loose clusters.]

Campanula patula - Spreading Bellflower - meadows & wood edges, locally common in France, and Tor [Wide-branched slender perennial; violet-blue 20-25mm flowers in spreading open clusters]

Campanula persicifolia - Peach-leaved Bellflower - meadows/scrub, e.g. near Pont de Suert

[As last but peach-like unstalked leaves; half-nodding flowers 3-4cm]

Campanula rapunculus - Rampion Bellflower - roadsides in France

Campanula rapunculoides - Creeping Bellflower - Santa Engracia area, below Perbes

[Creeping perennial: cordate leaves; long spikes of deep purple 2-3cm drooping flowers]

Campanula rotundifolia - Harebell - Segre and Ossoue

Campanula scheuchzeri - a bellflower - e.g. Segre, Gaudí's Inspiration

[Like Harebell but all leaves linear-lanceolate at flowering; 1 or few blue bells]

Campanula speciosa - Pyrenean Bellflower - below Perbes, in fine flower

[Perennial with erect bells 28-32mm in pyramidal cluster; linear leaves]

Campanula trachelium - Nettle-leaved Bellflower - woods and roadsides

[Large bristly perennial with jagged heart-shaped leaves and 3-4cm violet bell flowers]

Campanula erinus - Boixols area 2008

Jasione crispa - Dwarf Sheep's-bit - Troumouse 2012, also Puymorens 2012 ? = *Jasione humilis*

Jasione laevis - a sheep's-bit - Bonaigua and Aigues Tortes 2012

[Like tiny blue scabious but all flowers regular (also not curved in bud); leaves not wavy]

Jasione montana - Sheep's-bit - Peyresourde

[Differs from last by wavy leaves; annual]

Phyteuma hemisphaericum - Globe-headed Rampion - acid rocks Aigues Tortes and Troumouse 2012

[Like scabious but regular flowers curved in bud; globular-headed and basal leaves with short or no stalk]

Phyteuma charmelii - a rampion - Ossoue, in bud

Phyteuma orbiculare - Round-headed Rampion - base-rich turf, a few in Gavarnie area 2012

[Similar to *P.hemisphaericum* but basal leaves long-stalked]

Phyteuma ovatum - Dark Rampion - montane meadows, in leaf, e.g. Eyne, Tor, Gavarnie and Aigues Tortes

[Differs from last two rampions by ovoid/cylindrical spikes of blackish-violet flowers]

Phyteuma pyrenaicum - Pyrenean Rampion - Vielha, Gavarnie, and below Col d'Aspin

[Very similar to last but bluish flowers]

Phyteuma spicatum - Spiked Rampion - arrival day roadsides

[Like last two rampions, but spikes whitish]

Asteraceae

Achillea chamaemelifolia - Andorran Sneezewort - Segre, and rocks along the Tor road

[Heads white, 7-9mm; leaves 1-pinnate, linear lobes]

Achillea millefolium - Yarrow - dry grass, scattered

[Familiar, aromatic: 2-3 pinnate feathery leaves; white or pink heads 4-6mm in large flat-topped clusters]

Achillea odorata - Locally common along Tor road, Segre, and Canto road

Adenostyles alliariae - Adenostyles - in leaf at Eyne

[Big basal leaves (triangular/heart shaped); leafy stem bears dense clusters of red-purple rayless heads]

Antennaria dioica - Mountain Everlasting - *Pulsatilla rubra* site

[Mat-forming, leaves spoon-shaped, white beneath and white or pink rayless heads on low stem]

Anthemis arvensis - Corn Chamomile - Montanana road
Anthemis cotula - Stinking Chamomile - St.Llorenç 2010, recorded 2012
Anthemis triumfetti - Southern Dog-Daisy - Canigou 2012
Arctium lappa - Greater Burdock - France
Arctium minus - Lesser Burdock - Salas
 [Typical burdock: large cordate leaves; branched stems and bur heads]
Arnica montana - Mountain Arnica - Vielha tunnel
 [Single 4.5-8cm yellow daisy-like heads; elliptical basal leaves and stem-leaves opposite and bract-like]
Artemisia alba - a few records
Artemisia vulgaris - Mugwort
 [Familiar faintly scented perennial]
Artemisia absinthium - Wormwood - scattered records
Artemisia campestris - Field Wormwood - Trepç 2010
Aster alpinus - Alpine Aster - stony turf and rocks, Gavarnie area, and Perbes
 [Low perennial: elliptical leaves, single daisy-like heads 35-45mm, with violet-blue rays]
Bellis perennis - Daisy - Rioumajou etc.
Calendula arvensis - Field Marigold - Trepç area 2012
Carduncellus monspeliensis - 1, Montanana road, 2013
Carduus carlinifolius - Carline-leaved Thistle - Canigou 2012
 [Heads 2-3cm, spines to 1cm; thick leaves]
Carduus carlinoides - Pyrenean Thistle - Gavarnie, Err-Puigmal, Bonaigua
 [White-downy *Carduus*: winged stems, very spiny; rose-red heads 18-25mm in tight clusters]
Carduus defloratus - Alpine Thistle - Segre
Carduus nutans - Musk Thistle - France
Carduus pycnocephalus - France, 2013
Carlina acanthifolia - Acanthus-leaved Carline Thistle - previous year's seed heads, Vielha
Carlina acaulis - Stemless Carline Thistle - old seed heads, Tor etc.
Carlina vulgaris - Carline Thistle - old seed heads Perbes etc.
Catananche caerulea - Cupidone - Mediterranean influenced sites in Spain, e.g. Salas
 [Rather like graceful perennial blue cornflower; involucre bracts papery and silvery]
Carthamus lanatus - Montanana road and Santa Engracia track in leaf
Centaurea alpestris - Knapweed - noted in Spain?
 [From *C. scabiosa* by bigger heads and brown pappus]
Centaurea calcitrapa - Red Star-thistle - scattered records, e.g. near Trepç, 2012
 [Softly-leafy below (pinnately cut) but purple knapweed heads with straw-coloured 10-18mm spines]
Centaurea cyanus - Cornflower - arable weed in France
Centaurea melitensis - Maltese Star-thistle - near Trepç
Centaurea montana - Mountain Cornflower - wild at Tourmalet botanic garden, and day 2, 2012
Centaurea jacea - Brown Knapweed - lower altitudes in Spain
Centaurea aspera - recorded
Centaurea paniculata - Montanana road, 2013
Centaurea pectinata - Fillols 2012
Centaurea scabiosa - Greater Knapweed - France
 [Perennial: leaves 1(-2) pinnatisect; big (\pm rayed) purple heads, black fringed involucre]
Centaurea solstitialis - Yellow Star-thistle - near Trepç, 2013
Centaurea nigra - Common Knapweed - recorded
Cicerbita alpina - Alpine Sow-thistle - France
Cicerbita plumieri - below Tourmalet
Cichorium intybus - Chicory - rough verges
 [Like branched *Cicerbita*, but bright blue 2-4cm heads]
Cirsium arvense - Creeping Thistle - Salas

[Familiar creeping *Cirsium* with lilac-purple heads and glossy crisped very prickly leaves]
Cirsium eriophorum - Woolly Thistle - scattered records 2012
Cirsium monspessulanum - in leaf at Segre
Cirsium palustre - Marsh Thistle - damp grass, scattered records, France, Tor, Vielha
 [Tall slender *Cirsium*, spiny leaves purple edged; winged stems; crowded narrow purple heads]
Cirsium rivulare - Brook Thistle - damp acid sites, e.g. Vielha
 [Like Melancholy Thistle ± spineless & unwinged stems, but pinnate leaves green beneath and heads 25-30mm]
Cirsium vulgare - Spear Thistle – France, 2013
Conyza bonariensis - Tremp area, 2012
Conyza sumatrensis - Tremp area and Day 11, 2012
Crepis albida - Perbes and Ossoue
Crepis biennis - Ossoue, 2016
Crepis paludosa - Marsh Hawk's-beard - France
Crepis pygmaea - Pygmy Hawksbeard - Tentes and Ossoue gravels
Crupina vulgaris - Santa Engracia track
Cynara cardunculus - Cardoon - in bud, Gerri de la Sal, 2013
Dittrichia viscosa - a stink aster - Tremp reservoir in leaf, 2013
Doronicum austriacum - Segre, 2016
Doronicum pardalianches - Leopard's Bane - in flower at Rioumajou
Echinops sphaerocephalus - a globe thistle - Tremp reservoir, 2013
Erigeron alpinus - Alpine Fleabane - Neouvielle
Erigeron annuus - French roadsides
Erigeron acer - Blue Fleabane - Tor 2012
Erigeron uniflorus - One-flowered Fleabane - several at Envalira
Eupatorium cannabinum - Hemp-agrimony - Salas
 [Tall perennial: opposite 3-5 lobed leaves, numerous small pinkish-purple heads in broad corymbs]
Filago lutescens - Red-tipped Cudweed - Canto road
Filago minima - Small Cudweed - Fillols, Puymorens lily site, 2012
Filago pyramidata - Broad-leaved Cudweed - Perbes
Filago vulgaris - Common Cudweed - Fillols 2012
Galactites tomentosa - Galactites - autoroute verges
 [Thistle-like, white veined leaves, purple-lilac rayed heads]
Helichrysum stoechas - an everlasting - Montanana road
 [Tufted, woody-based; whitish stems, linear leaves, clustered small golden globular heads]
Hieracium candidum - a hawkweed - Tor
Hieracium lactucella - a hawkweed - Tor
Hieracium pilosella - Mouse-ear Hawkweed - Tor road and in France
Hieracium spp. - Hawkweeds
 [Very variable group of perennials: yellow dandelion-like heads, may be leafy or black hairy. Sections *Alpina* and *Subalpina* at Aigües Tortes]
Homogyne alpina - Alpine Colt's-foot - Bonaigua
 [Short creeping perennial, shiny kidney-shaped leaves; single rayless purple heads 10-15mm]
Hypochoeris maculata - Spotted Cat's-ear - at the 'tulip' stop on day 1, 2013
Hypochoeris radicata - Cat's-ear - scattered records
Inula montana - a fleabane - Montanana road
Inula salicina - Irish Fleabane - Salas 2009
Lactuca perennis - Blue Lettuce - local but widespread, e.g. Tor, Val d'Aran
 [Like hairless pinnately-lobed *Cicerbita*, but achenes beaked]
Lactuca serriola - Prickly Lettuce - La Guingeta
Lapsana communis - Nipplewort

[branched with ovate leaves; many 15-20mm yellow dandelion-type heads but no pappus]
Leontodon pyrenaicum - Pyrenean Hawkbit - Aigues Tortes
Leontopodium alpinum - Edelweiss - 1 plant along Cirque de Gavarnie track, 2016
Leucanthemopsis alpina - Alpine Moon Daisy - Neouvielle
 [Tufted perennial: single white-rayed daisies 2-4cm (often turning pink) and oval to pinnatisect, mostly basal, leaves]
Leucanthemum atratum - recorded?
Leucanthemum vulgare - Moon Daisy - dry grass, common and widespread
 [As Alpine Moon Daisy but leafier, upper stem leaves clasping stem; heads 25-50mm]
Leuzea conifera - Leuzea - Montanana road = *Rhaponticum coniferum*
 [Like low knapweed but involucre bracts papery forming shiny cone-like structure]
Matricaria discoidea - Pineapple Weed - Espot, Valcebollere
Mycelis muralis - Wall Lettuce
 [Widely branched slender yellow lettuce: pinnately lobed leaves (large hastate terminal lobe)]
Omalotheca supina - Dwarf Cudweed - Puymorens
Onopordum acanthium - Scotch Thistle - lower altitudes in Spain, e.g. Santa Engracia area, and France [Stout branched cobwebby biennial thistle: winged stems and purplish heads 35-50mm]
Onopordum acaulon - Stemless Cotton-thistle - in fine flower along Canto road 2012
Pallenis spinosa - Pallenis - Spain
Picris echioides - Bristly Oxtongue - Gaudi's Inspiration 2012
Picris hieracioides - Hawkweed Oxtongue - Segre
Petasites hybridus - Butterbur
Prenanthes purpurea - Purple Lettuce - in leaf below Tourmalet
 [From *Cicerbita* etc. by drooping purplish heads of 3-6 florets; hairless; oblong leaves]
Santolina chamaecyparissus - Lavender-cotton - locally very common at lower altitudes in Spain
 [As next but teeth/lobes crowded]
Santolina rosmarinifolia - a lavender cotton - Santa Engracia area
 [Aromatic whitish subshrub, linear remote-toothed leaves, flowers yellow rayless buttons]
Scorzonera angustifolia - a viper's-grass - Salas, this species?
Scorzonera crispatula - a viper's-grass - Salas, this species?
Scorzonera hirsuta - a viper's-grass - lower altitudes in Spain, e.g. Tremp Reservoir, 2013
 [Linear cobwebby leaves, pure yellow dandelion heads and densely hairy fruit]
Senecio adonidifolius - Mont-Louis, in leaf, and Eyne
Senecio doronicum - Chamois Ragwort - several at Vielha
Senecio inaequidens - locally commonly naturalised on roadsides, e.g. near La Seu d'Urgell
Senecio jacobaea - Common Ragwort - autoroute verges
 [Many yellow daisy-like heads and pinnate-lobed leaves (segments oblong)]
Senecio vulgaris - Common Groundsel
 [Familiar weed]
Senecio sylvaticus - Wood Groundsel - France 2011
Serratula centauroides - Cardoon Knapweed - in leaf in Ossoue valley, 2012. Flowers in August/September.
 = *Leuzea centauroides*, = *Rhaponticum centauroides*
Silybum marianum - Milk Thistle - Tremp
 [Robust weakly spiny thistle with white veins, and long-spined involucre]
Sonchus arvensis - Perennial Sow-thistle - Tremp area, 2013
Sonchus asper - Spiny Sow-thistle - Salas, 2013
 [Thistle-like annual: milky sap, and many yellow dandelion-like heads]
Sonchus oleraceus - Smooth Sow-thistle - lower altitudes in Spain, 2013
 [Similar to latter, but almost without prickles]
Stachelina dubia - Stachelina - matorral, Montanana road, and Tremp reservoir, 2013
 [Subshrub: stem & narrow toothed leaves felted; narrow purple thistle-like heads]

Tanacetum corymbosum - a tansy - Gavarnie, in bud, 2013
Tanacetum vulgare - Tansy - widespread in leaf
Taraxacum laevigatum
Taraxacum officinale s.l. - Dandelion - grassland, widespread
[Typical dandelion: hollow stalk, milky sap]
Taraxacum sp. - Aigues Tortes, small with finely divided leaves, elsewhere too
Tepfroseris helenitis - locally common near Mont-Louis
Tragopogon crocifolius - a salsify - recorded
[Like next, but yellow centre to violet head]
Tragopogon dubius - a salsify - Day 2
Tragopogon porrifolius - Salsify - recorded
Tragopogon pratensis - Goat's-beard - scattered records, e.g. Eyne
[Like a leek with yellow dandelion-like heads (ca 8 long bracts)]
Tripleurospermum inodorum - Scentless Mayweed - recorded
Tussilago farfara - Colt's-foot - still in flower this year
[In June usually just large cordate leaves, cobwebby beneath]
Urospermum dalechampii - autoroute verges
Xanthium spinosum - Spiny Cocklebur - Salas 2011
Xeranthemum inapterum - Salas area

MONOCOTYLEDONS

Hydrocharitaceae

Elodea canadensis - Canadian Pondweed - Day 11, 2012

Potamogetonaceae

Groenlandia densa - Opposite-leaved Pondweed - Perbes pond

Liliaceae

Allium ampeloprasum - Wild Leek - Salas, in leaf, 2013

[Tall stout leek with dense terminal pink head; leaves 5-40mm wide, flat/V-shaped in section]

Allium schoenoprasum - Chives - in bud at Eyne

[Tufted: all leaves basal & tubular; dense heads of purple or violet-pink flowers; stem <50cm]

Allium sphaerocephalon - Round-headed Leek - Montanana road and Santa Engracia track

[Like Wild Leek, but leaves semi-cylindrical; globose dense head of dark purple-red flowers]

Allium moly - many fine examples at Plata Verde, Santa Engracia, 2009

Allium ursinum - Ramsons - Eyne

Allium victorialis - Alpine Leek - Aigues Tortes and Vielha

Allium vineale - Crow Garlic - in bud, Tremp area, 2013

Anthericum liliago - St Bernard's Lily - widespread in small numbers, e.g. arrival day, and Tor

[Starry white flowers (loose raceme); basal leaves]

Aphyllanthes monspeliensis - Blue Aphyllanthes - locally very common at lower altitudes in

Spain [Like tough rush tuft with starry blue flowers]

Asparagus acutifolius - Collegats

Asphodelus albus - Asphodel - widespread and locally common

[Stout dense spike of white starry flowers; strap-leaves]

Brimeura amethystina - Pyrenean Hyacinth - common at Perbes, numerous in Ossoue valley,

Gavarnie, and Vielha

Dipcadi serotinum - Dipcadi - scattered in Spain, e.g. above Alins, and Montanana road

[Resembles a bluebell but with 1-sided raceme of brownish flowers]

Erythronium dens-canis - Dog's-tooth Violet - alpine turf, over this year at Port de la Bonaigua

[leaves elliptical and dark-mottled]

Fritillaria pyrenaica - a few wild in the Tourmalet botanic garden, gone over 2012. 2013 one in fine flower Ossoue.

Gagea fistulosa - 4+ in flower at Aigues Tortes 2008. 2009 several in flower by one snow patch. 2010 a few in flower at Bonaigua. 2012 gone over at Bonaigua. 2013 numerous in flower Bonaigua and Andorra, 1 at Aigues

Tortes. 2016 a few at Bonaigua.

Lilium martagon - Martagon Lily - scattered records in leaf and bud, e.g. Eyne and Segre

[Whorls of elliptical leaves; dark-spotted pinkish nodding Turk's-caps]

Lilium pyrenaicum - Pyrenean Lily- a few in the Gavarnie area in bud, leaves at Eyne, in flower on

roadsides on arrival day, locally numerous

[Numerous alternate lanceolate leaves; yellow nodding Turk's-caps (brown-spotted)]

Merendera pyrenaica - in seed at Perbes etc.

Muscari comosum - Tassel Hyacinth - Segre

Muscari neglectum - Common Grape Hyacinth - Perbes

Ornithogalum collinum - a Star of Bethlehem - Perbes

Ornithogalum narbonense - Montanana road

Ornithogalum pyrenaicum - Bath Asparagus - La Guingeta, in flower, 2013

Ornithogalum umbellatum - Star of Bethlehem - Aragon lunch site
Paradisea liliastrum - St Bruno's Lily - Eyne
 [Loose 1-sided racemes of fragrant white 4-5cm trumpet-like flowers]
Paris quadrifolia - Herb Paris - Cirque de Gavarnie trail 2013
 [Whorl of 4(-5) oval leaves; single green starry flower & black berry]
Polygonatum multiflorum - Common Solomon's-seal - seen on day 8, 2010
 [Arching stem: ovate leaves, scentless flowers 2-6 on a stalk]
Polygonatum odoratum - Angular Solomon's-seal - Segre and Eyne
 [As latter but scented flowers 1-2 on a stalk; angled stem]
Polygonatum verticillatum - Whorled Solomon's-seal - 2008
 [Erect: whorls of 3-6 lanceolate leaves; 1-2 unscented flowers on stalk]
Ruscus aculeatus - Butcher's Broom - Salas
Scilla lilio-hyacinthus - Pyrenean Squill - Gavarnie
 [15-30cm strap-like leaves; 5-15 capsules]
Scilla verna - Spring Squill - Peyresourde and Gavarnie
Tofieldia calyculata - Tofield's Asphodel - damp places, Vielha tunnel and Rioumajou
 [From *Narthecium* by spike of 5-7mm yellowish-green flowers]
Tulipa australis - in fruit at the 'lily stop' on the arrival day, 2012. 2013 abundantly in superb flower along one stretch of road in France on the arrival day. 2016 seen from the vehicle at the same site but impossible to stop!
Veratrum album - White False Helleborine - locally common in leaf, e.g. Vielha and Val d'Eyne
 [Robust, hairy, leafy: pleated ovate leaves; branched spike of white & green flowers]

Agavaceae

Agave americana - Century Plant - roadsides day 3, 2012

Amaryllidaceae

Narcissus poeticus - Poet's Narcissus - locally common, as at Vielha tunnel. Abundant in France.
 [Short yellow corona, surrounded by long white segments - various forms seen]
Narcissus requienii - Rush-leaved Narcissus - a few in flower in Ossoue valley was a great find, 2008. 2013 many in fine flower in Ossoue. 2016, in fruit Ossoue.
Narcissus pseudonarcissus pallidiflorus - In flower in Andorra
Narcissus bicolor - Bonaigua 2013
Narcissus muticus - this species, or form of the previous species, apparently at Gavarnie 2013
Narcissus sp. - in fruit at Perbes 2011, short, single flowers

Dioscoreaceae

Tamus communis - Black Bryony - scattered records
 [Unarmed climber: glossy cordate leaves; green spikes, red berries]

Iridaceae

Crocus vernus ssp. *albiflorus* - White Crocus - 2013: many still in flower in Aigues Tortes, both white and purple forms. Abundant in Andorra. 2016: in leaf [typical crocus, leaves with wide white midrib]
Gladiolus illyricus - Wild Gladiolus - Montanana road and Salas
 [Typical slender pink-purple gladiolus]
Iris latifolia - Pyrenean Iris - many in leaf, and with last years fruiting heads, in France 2013 and 2016. 1 superb plant in flower in Spain, near Pineta, Ordesa, 2009, this plant in bud 2010. 2 in fine flower in Ossoue Valley 2011.
Iris pseudacorus - Yellow Flag - roadsides in France

Juncaceae

- Luzula campestris* - Field Wood-rush - scattered records
Luzula nivea - Snowy Wood-rush - Tor etc.
[From all other *Luzula* spp. by whitish clustered flowers]
Luzula multiflora - Heath Wood-rush - Tor etc.
Luzula nutans - Bonaigua and numerous at Aigues Tortes, also Andorra
Luzula pilosa - Hairy Wood-rush - scattered records, e.g. Rioumajou
Luzula alpinopilosa - Alpine Wood-rush - scattered records, e.g. Eyne
Luzula spicata - Neouvielle
Luzula sudetica - Bonaigua
Luzula sylvatica - Great Wood-rush - Portillon
Luzula desvauxii - Err-Puigmal and Eyne
Juncus acutiflorus - Sharp-flowered Rush - Portillon 2012
Juncus articulatus - Jointed Rush - Espot
Juncus bufonius - Toad Rush - near Pont de Suert
Juncus bulbosus - Bulbous Rush - in pools at Vielha
Juncus compressus - Round-fruited Rush - Vielha
Juncus effusus - Soft Rush
Juncus filiformis - Perbes
Juncus inflexus - Hard Rush - Perbes, Salas, and France
Juncus subnodulosus - Blunt-flowered Rush - Salas
Juncus tenuis - Slender Rush - scattered records

Poaceae

- Aegilops geniculata* - locally very common, Montanana road etc.
Agropyron pectinatum - Collegats 2012
Agrostis stolonifera - Creeping Bent
Agrostis sp. - acid rocks, Troumouse
Alopecurus pratensis - Meadow Foxtail
Anthoxanthum odoratum - Sweet Vernal Grass - widespread
Arrhenatherum elatius - False Oat-grass - widespread
Arundo donax - Giant Reed - roadsides at lower altitudes
Avena fatua - Wild-oat
[Typical wild oat, spikelet 18-25mm, with long geniculate awn]
Avena strigosa - Bristle Oat - Cady river 2012
Brachypodium pinnatum - Tor-grass
[Broad leaves, yellow-green beneath, glaucous above: "pinnate" head of stalkless long spikelets]
Brachypodium phoenicoides - recorded
Brachypodium sylvaticum - False Brome
Briza media - Common Quaking-grass - meadows, e.g. Eyne, Tor
[Hairless perennial: grey green; open panicle of round unawned spikelets]
Briza minor - Lesser Quaking Grass - Perbes
Bromus erectus - Upright Brome - widespread
Bromus rigidus - Stiff Brome
Bromus squarrosus - Rough Brome - Montanana road
[Annual with oval spikelets with widely spreading awns]
Bromus hordeaceus - Soft Brome - e.g. Tor
Bromus sterilis - Barren Brome - e.g. Tor
Bromus tectorum - Drooping Brome - e.g. Tor, Segre meadows
Calamagrostis spp. - at least 2 species, roadsides, France

Cynodon dactylon - Bermuda Grass
Cynosurus cristatus - Crested Dog's-tail - e.g. Gavarnie
 [Perennial: dense 1-sided toothbrush-like spike; zigzag rhachis visible]
Cynosurus echinatus - Rough Dog's-tail - e.g. Tor
Dactylis glomerata ssp. hispanica - Cock's-foot - widespread
 [Branched 1-sided flower-head of oval spikelets, flat shoots]
Deschampsia cespitosa - Tufted Hair-grass
Deschampsia flexuosa - Wavy Hair-grass - acid swards
 [Tufted perennial: leaves setaceous; branched panicle with wavy stalks]
Dezmazenia rigida - Fern Grass - Gaudi's Inspiration, 2013
Digitaria sp. - Montanana road
Elymus caninus - Bearded Couch
Elymus repens - Common Couch
Festuca ovina - Sheep's Fescue
 [Densely tufted perennial: hairless thread-like leaves; awns <1mm]
Festuca rubra - Red Fescue
 [Thread-leaved perennial: hairy sheaths; awns ca 2mm+]
Festuca paniculata - some fine examples at Segre, Vielha tunnel, Val d'Eyne, Aigues Tortes etc.
Festuca gigantea - Giant Fescue
Festuca pratensis - Meadow Fescue - Salas
Festuca gautieri - locally dominant on calcareous soils
Festuca eskia - La Fetuque Gispet - dominant on acid soils
Festuca vivipara - Viviparous Fescue
Festuca spp. - other species not identified
Glyceria declinata - Small Sweet-grass - day 10, 2012
Glyceria fluitans - Floating Sweet-grass - Perbes pond
Hordeum distichon - Two-rowed Barley - recorded
Hordeum murinum - Wall Barley - Alins etc.
Holcus lanatus - Yorkshire Fog
 [Softly hairy, tufted perennial, lower sheaths striped in purple]
Imperata cylindrica - Cady River 2012
Koeleria pyramidata - Pyramidal Hair-grass - recorded
Koeleria vallesiana - Somerset Hair-grass - locally common along Montanana road
Lagurus ovatus - Hare's-tail Grass - recorded 2012
Lolium perenne - Perennial Rye-grass
 [Familiar grass with shiny leaves and spike-like flower-head]
Lolium temulentum - Darnel - France
Lygeum spartum - Albardine - Ager road 2010
Melica nutans - Mountain Melick
Melica uniflora - Wood Melick - woods, e.g. Tor road, Rioumajou
 [Delicate perennial: branched head of 1-flowered spikelets each 4-7mm]
Melica ciliata - Ciliate Melick - e.g. Tor and Perbes, Canto road, and near Pont de Suert
Milium effusum - Wood Millet - Gedre 2013
 [Big perennial: broad leaves; many small pale awnless spikelets]
Molinia caerulea - Purple Moor-grass - boggy meadows
 [Tufted perennial: ligule a ring of hairs; branched panicle of purplish spikelets]
Nardus stricta - Mat-grass - acid turf, e.g. Vielha, Aigues Tortes, Col de Canto
 [Densely tufted perennial: 1-sided comb-like spike]
Phalaris arundinacea - Reed Canary-grass - Day 1 lunch site
Phleum alpinum - Tor
Phleum pratense - Timothy

[Grey-green hairless perennial: long sausage-like spike]

Phleum phleoides - Purple-stem Cat's-tail - e.g. lower Santa Engracia track

Phragmites australis - Common Reed

[Familiar tall broad-leaved grass with persistent canes]

Poa alpina - Alpine Meadow-grass - rocky alpine turf, e.g. Aigues Tortes

[*Poa* spp. have branched panicles of unawned 2-10 flowered spikelets and keeled leaves: *P. alpina* often viviparous]

Poa annua - Annual Meadow-grass

[As other *Poa* spp but annual, crinkly leaves]

Poa bulbosa - Bulbous Meadow-grass - e.g. Tor

[Viviparous grass]

Poa nemoralis - Wood Meadow-grass - e.g. Rioumajou

[Typical perennial *Poa*: spikelets <4mm, and 1.5-2mm wide leaves]

Poa pratensis - Smooth Meadow-grass

Poa trivialis - Rough Meadow-grass - e.g. Salas

[Perennial *Poa*: ligule 4-10mm, rough stems; leaves 2-4.5mm wide]

Rotraria cristata - Crested Hair-grass - Cady river stop 2012

Sesleria albicans - Blue Moor Grass - Gavarnie area, locally dominant = *Sesleria caerulea*

Setaria pumila - Yellow Bristle-grass

Setaria viridis - Green Bristle-grass

Sorghum halepense - Johnson Grass - Tremp area 2012

Stipa pennata - Needle-grass - Santa Engracia and Montanana areas, locally common

Trisetum flavescens - Yellow Oat-grass

Triticum aestivum - Bread Wheat - day 6 roadsides, 2013

Vulpia bromoides - Squirrel-tail Fescue - Tremp area 2012

Vulpia ciliata - Bearded Fescue - Santa Engracia 2013

Cyperaceae

Scirpoides holoschoenus - Round-headed Club-rush - Pont de Suert

Eleocharis quinqueflora - Few-flowered Spike-rush - Vielha tunnel and France

Eleocharis palustris - Common Spike-rush - Perbes ponds

Trichophorum caespitosum - Deer Grass - Vielha

Eriophorum angustifolium - Common Cotton-grass - bog pools, Mt.Louis

[Creeping perennial: stained wine-red: 3-7 drooping spikelets becoming white-cottony in fruit]

Eriophorum latifolium - Broad-leaved Cotton-grass - Aigues Tortes, Vielha, and Tor

Schoenus nigricans - Black Bog Rush - Collegats

Kobresia simpliciuscula - False Sedge - Puymorens 2012

Carex paniculata - Greater Tussock Sedge - Mt.Louis and above Tor

Carex vulpina - Fox Sedge

Carex spicata - Spiked Sedge - Tor

Carex muricata ssp. *pairae* - recorded in the first few days

Carex disticha - Brown Sedge - Salas 2012

Carex leporina - Oval Sedge - Vielha, Aigues Tortes, Tor, etc.

Carex echinata - Star Sedge - Tor, Vielha, France

Carex davalliana - Vielha tunnel

Carex curvula - Vielha

Carex hirta - Hairy Sedge - Segre, Espot

Carex sylvatica - Wood Sedge

Carex remota - Remote Sedge - Fillols 2012

Carex mairei - Canigou 2012

Carex hostiana - Tawny Sedge - Vielha

Carex flava - Large Yellow Sedge - Salas
Carex lepidocarpa - Long-stalked Yellow Sedge - Vielha, Aigues Tortes
Carex demissa - Common Yellow Sedge - Vielha etc.
Carex viridula
Carex pallescens - Pale Sedge - Tor, Vielha etc.
Carex rostrata - Bottle Sedge - Aigues Tortes, Ratera
Carex halleriana - Perbes, Vielha, Tor, Ossoue
Carex digitata - Fingered Sedge - Pont de Suert
Carex ornithopoda - Bird's-foot Sedge - Rioumajou
Carex montana - Soft-leaved Sedge - Tor, Vielha, Aigues Tortes, widespread
Carex sempervirens - Bonaigua, Vielha, Aigues Tortes
Carex ferruginea - Ossoue
Carex caryophylla - Spring Sedge - Bonaigua, Puymorens, etc.
Carex depressa ssp. *basilaris* - 1 at Bonaigua 2012
Carex panicea - Carnation Sedge - Vielha and France
Carex flacca - Glaucous Sedge - widespread, e.g. Segre
Carex pilulifera - Pill Sedge - Vielha etc.
Carex liparocarpos - Glossy-fruited Sedge - near Pont de Suert
Carex frigida - Aigues Tortes 2012
Carex atrata - Black Alpine Sedge - Aigues Tortes
Carex nigra - Common Sedge - Mt.Louis etc.
Carex macrostyla - Tentes 2012
Carex pyrenaica - Pyrenean Sedge - Tentes 2011
Carex pulicaris - Flea Sedge - Vielha

Typhaceae

Typha latifolia - Bulrush - Day 8, 2012

Orchidaceae

Aceras anthropophorum - Man Orchid - St.Paul, and below Col d'Aspin 2010. 2013 roadsides on the arrival day.

Anacamptis pyramidalis - Pyramidal Orchid - arrival day lunch site and motorway verges in France
 [Dense pink pyramidal spike, long curved spurs (foxy smelling); narrow leaves 7-20mm wide]

Cephalanthera damasonium - White Helleborine - 1 in woods near Pont de Suert, and a few at Troumouse lunch site [As next but 3-12 flowers and lower leaves ovate]

Cephalanthera longifolia - Sword-leaved Helleborine - Gavarnie and near Pont de Suert
 [Several lance-like leaves and 8-20 pure white egg-shaped flowers]

Cephalanthera rubra - Red Helleborine - many near Salas in fine flower
 [From last by 3-10 pink-purple flowers]

Coeloglossum viride - Frog Orchid - a few at Vielha tunnel 2013

[Short; oblong blue-green leaves; spike of 5-15 yellow-green flowers, tinged red-brown]

Dactylorhiza majalis alpestris - a marsh orchid - locally numerous as near Mt.Louis. Fewer in flower than usual.

[*Dactylorhiza* spp. look like slim hyacinths, differing from *Orchis* spp. in having some bracts in the spike leaflike. This has hollow stems to 25cm, ovate leaves and purple flowers with lip hardly lobed]

Dactylorhiza caramulensis - a spotted orchid - Vielha

[As last but solid stems, spotted leaves; lip of pale lilac flowers not 3-lobed, spur base >2mm wide]

Dactylorhiza elata - a marsh orchid - a few near Salas, very robust

[As *D. alpestris* but 30-110cm tall; lance-leaved]

Dactylorhiza fuchsii - Common Spotted-orchid - scattered, several in France, also Salas

[From other spotted-orchids by clearly 3-lobed lip]

Dactylorhiza maculata - Heath Spotted-orchid - scattered records, e.g. Vielha

[Very like *D. caramulensis* but spur-base narrower; usually shorter and less robust]

Dactylorhiza sambucina - Elder-flowered Orchid - Vielha tunnel, several, a few still in flower, and numerous at Puymorens [Pale lemon yellow, or purple, spikes, leafy bracts and descending spur]

Epipactis helleborine - Broad-leaved Helleborine - in bud in woods near Pont de Suert

Epipactis palustris - Marsh Helleborine - a few near Salas, in bud

Epipactis tremolsii - a helleborine - Salas in bud, 2013

[From *E. helleborine* by erect stiff leaves wrapped into a cone at this time (before flowering)]

Epipactis microphylla - near Salas, c.5 in flower

Gymnadenia conopsea - Fragrant Orchid - scattered records, locally common, as at Vielha

[Similar to Pyramidal Orchid, but spikes cylindrical, fragrant.]

Himantoglossum hircinum - Lizard Orchid - roadsides near Toulouse (PGC)

Limodorum abortivum - Violet Limodore - 8 near Pont de Suert in fine flower, in fruit at Salas

Listera ovata - Common Twayblade - 2011, 3 at Salas, 4 at Vielha. 2012 Salas and Vielha. 2013 Salas and near Pont de Suert. [Opposite pair of oval ribbed leaves; green flower spike, lip forked]

Neottia nidus-avis - Bird's-nest Orchid - Segre, and Rioumajou

Nigritella austriaca - a vanilla orchid - several at Vielha tunnel

[Short: dense rounded head of deep red-brown, vanilla-scented flowers (all perianth segments spreading) lip 7-10mm]

Ophrys apifera - Bee Orchid - arrival day lunch site, near Salas, Montanana, and Perbes

[A familiar orchid: few large spurless flowers with 3 spreading pink 10-15mm sepals & brown furry lip]

Ophrys insectifera - Fly Orchid - Perbes

Ophrys scolopax - Woodcock Orchid - Salas and Montanana road

[Similar to *O. apifera* but sepals 8-10mm and lip usually more ovate-lanceolate]

Orchis coriophora - Bug Orchid - several at one site near Tor [Unlike *Dactylorhiza*, *Orchis* spp. have membranous bracts. Bug Orchid is small: dense brownish red spike (foetid smell)]

Orchis mascula - Early Purple Orchid - scattered, mainly in France, locally common

Orchis ustulata - Burnt-tip Orchid - Tor, Vielha, and Gavarnie.

[Purple-brown helmet and white to pale pink manikin lip]

Platanthera bifolia - Lesser Butterfly-orchid - 1 at Perbes

[Two elliptic shiny basal leaves; loose spikes of greenish-white flowers with long spurs and anther-lobes parallel]

Platanthera chlorantha - Greater Butterfly-orchid - widespread and reasonably common

[Very similar but usually bigger, with anther-lobes diverging]

Pseudorchis albida - Small White Orchid - Vielha tunnel 2013

[Short - dense spike of 2-3mm greenish-white flowers]

Systematic List Number 2 Butterflies

The taxonomy and systematic order have been taken from Tolman and Lewington's 'Butterflies of Britain and Europe' published by Harper Collins (1997).

Papilionidae

Swallowtail	<i>Papilio machaon</i>	Tor
Scarce Swallowtail	<i>Iphiclides podalirius</i>	France
Spanish Swallowtail	<i>Iphiclides feisthamelii</i>	Seen daily in Spain
Apollo	<i>Parnassius apollo</i>	Only at Tor
Clouded Apollo	<i>Parnassius mnemosyne</i>	Eyne, Neouvielle, Gavarnie, etc.

Pieridae

Large White	<i>Pieris brassicae</i>	Widespread and common
Black-veined White	<i>Aporia crataegi</i>	Widespread, seen on 5 days
Small White	<i>Artogeia rapae</i>	Widespread in small numbers
Green-veined White	<i>Artogeia napi</i>	Scattered records
Bath White	<i>Pontia daplidice</i>	On 2 days in Spain
Western Dappled White	<i>Euchloe crameri</i>	1 at Perbes
Mountain Dappled White	<i>Euchloe simplonia</i>	Andorra
Orange-Tip	<i>Anthocharis cardamines</i>	Widespread and rather common this year
Provence Orange-Tip	<i>Anthocharis euphenoides</i>	On first two days in France, and at lower altitudes in Spain
Berger's Clouded Yellow	<i>Colias alfacariensis</i>	Collegats
Clouded Yellow	<i>Colias crocea</i>	Widespread and common
Brimstone	<i>Gonepteryx rhamni</i>	Widespread in small numbers
Cleopatra	<i>Gonepteryx cleopatra</i>	Lower altitudes in Spain
Wood White	<i>Leptidea sinapsis</i>	Widespread in small numbers

Lycaenidae

Spanish Purple Hairstreak	<i>Laeosopis roboris</i>	2 near Tremp
Ilex Hairstreak	<i>Satyrium ilicis</i>	Montanana road and Salas area
False Ilex Hairstreak	<i>Satyrium esculi</i>	Montanana road and Tremp area
Blue-spot Hairstreak	<i>Satyrium spini</i>	2 on Day 6
Green Hairstreak	<i>Callophrys rubi</i>	Scattered records, mostly in France
Violet Copper	<i>Lycaena helle</i>	A trip highlight was a superb male in Val d'Eyne
Small Copper	<i>Lycaena phlaeas</i>	Widespread in small numbers
Sooty Copper	<i>Lycaena tityrus</i>	Widespread in small numbers
Purple-edged Copper	<i>Lycaena hippothoe</i>	Neouvielle and Troumouse
Long-tailed Blue	<i>Lampides boeticus</i>	On 3 days in Spain
Short-tailed Blue	<i>Everes argiades</i>	Salas
Provençal Short-tailed Blue	<i>Everes alcetas</i>	On 3 days in Spain
Little Blue	<i>Cupido minimus</i>	Widespread and locally common
Osiris Blue	<i>Cupido osiris</i>	Tor and Perbes
Holly Blue	<i>Celastrina argiolus</i>	Seen on 3 days in Spain
Baton Blue	<i>Pseudophilotes baton</i>	Scattered records
Chequered Blue	<i>Scolitantides orion</i>	1 at Perbes, 2 at Collegats
Silver-studded Blue	<i>Plebejus argus</i>	Recorded?
Idas Blue	<i>Lycaeides idas</i>	Spain

Geranium Argus	<i>Eumedonia eumedon</i>	Tor and Troumouse
Brown Argus	<i>Aricia agestis</i>	Scattered records
Mountain Argus	<i>Aricia artaxerxes</i>	Day 8
Mazarine Blue	<i>Cyaniris semiargus</i>	Widespread
Chapman's Blue	<i>Agrodiaetus thersites</i>	On 2 days in Spain
Turquoise Blue	<i>Plebicula dorylas</i>	Gavarnie area
Chalk-hill Blue	<i>Lysandra coridon</i>	Seen on two days in Spain
Adonis Blue	<i>Lysandra bellargus</i>	Widespread, seen daily
Common Blue	<i>Polyommatus icarus</i>	Widespread and reasonably common

Riodinidae

Duke of Burgundy Fritillary	<i>Hamaeris lucina</i>	Seen on four days this year, e.g. Eyne and Tor
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Libytheidae

Nettle-tree Butterfly	<i>Libythea celtis</i>	1 at Salas
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Nymphalidae

Southern White Admiral	<i>Limenitis reducta</i>	Day 4 and Salas
Camberwell Beauty	<i>Nymphalis antiopa</i>	Tor and Day 7
Peacock	<i>Inachis io</i>	Day 8
Red Admiral	<i>Vanessa atalanta</i>	Scattered records
Painted Lady	<i>Cynthia cardui</i>	Widespread in small numbers
Small Tortoiseshell	<i>Aglais urticae</i>	Widespread, common at higher altitudes
Comma	<i>Polygonia c-album</i>	On 2 days in Spain
Queen of Spain Fritillary	<i>Issoria lathonia</i>	Scattered records
Marbled Fritillary	<i>Brenthis daphne</i>	Salas
Bog Fritillary	<i>Proclossiana eunomia</i>	1 at Eyne
Pearl-bordered Fritillary	<i>Clossiana euphrosyne</i>	Widespread
Weaver's Fritillary	<i>Clossiana dia</i>	Scattered records, seen on 4 days
Glanville Fritillary	<i>Melitaea cinxia</i>	Widespread
Knapweed Fritillary	<i>Melitaea phoebe</i>	On 2 days in Spain
Spotted Fritillary	<i>Melitaea didyma</i>	On 2 days in Spain
Heath Fritillary	<i>Mellicta athalia</i>	Scattered records
Provençal Fritillary	<i>Mellicta deione</i>	Seen on 5 days, e.g. Tor
Meadow Fritillary	<i>Mellicta parthenoides</i>	Scattered records
Marsh Fritillary	<i>Euphydryas aurinia</i>	Several at Salas

Satyridae

Marbled White	<i>Melanargia galathea</i>	Seen in France
Iberian Marbled White	<i>Melanargia lachesis</i>	On 2 days in Spain
Mountain Ringlet	<i>Erebia epiphron</i>	Seen on 3 days at higher altitudes
de Prunner's Ringlet	<i>Erebia triaria</i>	Scattered records, e.g. Vielha. seen on 4 days.
Lefebvre's Ringlet	<i>Erebia lefebvrei</i>	A male at Gavarnie
Bright-eyed Ringlet	<i>Erebia oeme</i>	Gavarnie area
Piedmont Ringlet	<i>Erebia meolans</i>	On 2 days in France
Meadow Brown	<i>Maniola jurtina</i>	Scattered records
Ringlet	<i>Aphantopus hyperantus</i>	Arreau
Spanish Gatekeeper	<i>Pyronia bathseba</i>	On 3 days in Spain

Small Heath	<i>Coenonympha pamphilus</i>	Widespread
Dusky Heath	<i>Coenonympha dorus</i>	Lower altitudes in Spain
Pearly Heath	<i>Coenonympha arcania</i>	Scattered records
Speckled Wood	<i>Pararge aegeria</i>	Widespread
Wall Brown	<i>Lasiommata megera</i>	Widespread
Large Wall Brown	<i>Lasiommata maera</i>	Scattered records, seen on 5 days

Hesperiidae

Grizzled Skipper	<i>Pyrgus malvae</i>	Widespread
Large Grizzled Skipper	<i>Pyrgus alveus</i>	Scattered records
Oberthur's Grizzled Skipper	<i>Pyrgus armoricanus</i>	Val d'Eyne
Olive Skipper	<i>Pyrgus serratulae</i>	Scattered records
Safflower Skipper	<i>Pyrgus carthami</i>	Day 2 and Perbes
Red-underwing Skipper	<i>Spialia sertorius</i>	Widespread in small numbers
Mallow Skipper	<i>Carcharodus alceae</i>	Scattered records
Tufted Marbled Skipper	<i>Carcharodus flocciferus</i>	Seen on 3 days, e.g. Tor
Dingy Skipper	<i>Erynnis tages</i>	Scattered records
Chequered Skipper	<i>Carterocephalus palaemon</i>	On 3 days in France
Essex Skipper	<i>Thymelicus acteon</i>	Day 10
Small Skipper	<i>Thymelicus sylvestris</i>	Day 9
Large Skipper	<i>Ochlodes venatus</i>	Scattered records

Systematic List Number 3 Moths

This is a composite list of moths mostly observed casually during recent tours.

Zygaenidae

Six-spot Burnet	<i>Zygaena filipendulae</i> <i>Zygaena fausta junceae</i> <i>Zygaena sarpedon carmencita</i> <i>Zygaena lavandulae</i> <i>Zygaena rhadamanthus</i>
Forester spp.	

Tortricidae

Green Oak Tortrix	<i>Tortrix viridana</i> <i>Epiblemma cynosbatella</i>
Codling Moth	<i>Cydia pomonella</i>

Pyralidae

	<i>Chrysocrambus craterellus</i> <i>Chrysoteuchia culmella</i> <i>Thisanotia chrysonuchella</i>
Rush Veneer	<i>Nomophila noctuella</i>
Small Magpie	<i>Anania hortulata</i>

Thyrididae

Thyris fenestrella

Lasiocampidae

Lackey	<i>Malacosoma neustria</i>
Fox Moth	<i>Macrothylacia rubi</i>
Oak Eggar	<i>Lasiocampa quercus</i>

Thyatiridae

Poplar Lutestring	<i>Tethea or</i>
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Geometridae

Orange Underwing	<i>Archiearis parthenias</i> <i>Pseudoterpna coronillaria</i>
Essex Emerald	<i>Thetidia smaragdaria</i>
Blood-vein	<i>Timandra griseata</i> <i>Idaea aureolaria</i>
Lewes Wave	<i>Scopula immorata</i>
Lace Border	<i>Scopula ornata</i> <i>Rhodostrophia calabra</i> <i>Lythria cruentaria</i>
Silver-ground Carpet	<i>Xanthorhoe montanata</i>
Small Argent and Sable	<i>Epirrhoe tristata</i>
Grass Rivulet	<i>Perizoma albulata</i> <i>Perizoma hydrata</i>
Green Pug	<i>Chloroclystis rectangulata</i>
Mottled Pug	<i>Eupithecia exiguata</i>

White-spotted Pug	<i>Eupithecia tripunctaria</i>
Common Pug	<i>Eupithecia vulgata</i>
Chimney Sweeper	<i>Odezia atrata</i>
Drab Looper	<i>Minoa murinata</i>
Barred Umber	<i>Plagodis pulveraria</i>
Brimstone Moth	<i>Opisthograptis luteolata</i>
Clouded Border	<i>Lomaspilis marginata</i>
Latticed Heath	<i>Semiothisa clathrata</i>
Frosted Yellow	<i>Isturgia limbaria</i>
Speckled Yellow	<i>Pseudopanthera macularia</i>
Early Thorn	<i>Selenia dentaria</i>
Scalloped Hazel	<i>Odontoptera bidentata</i>
Peppered Moth	<i>Biston betularia</i>
Bordered White	<i>Bupalus piniaria</i>
Common Heath	<i>Ematurga atomaria</i>
black mountain moth spp.	<i>Glacies</i> spp.
	<i>Psodos quadrifaria</i>
Black-veined Moth	<i>Siona lineata</i>
Straw Belle	<i>Aspitates gilvaria</i>

Sphingidae

Elephant Hawk	<i>Deilephila elpenor</i>
Small Elephant Hawk	<i>Deilephila porcellus</i>
Humming-bird Hawk-moth	<i>Macroglossum stellatarum</i>

Notodontidae

Iberian Puss Moth	<i>Cerura iberica</i>
Swallow Prominent	<i>Pheosia tremula</i>
Lesser Swallow Prominent	<i>Pheosia gnoma</i>

Arctiidae

	<i>Setina irrorella</i>
Feathered Footman	<i>Spiris striata</i>
	<i>Rhyparia purpurata</i>
Clouded Buff	<i>Diacrisio sannio</i>
Cream-spot Tiger	<i>Arctia villica</i>
Ruby Tiger	<i>Phragmatobia fuliginosa</i>

Noctuidae

Large Yellow Underwing	<i>Noctua pronuba</i>
Grey Arches	<i>Polia nebulosa</i>
Shears	<i>Plebeja nana</i>
Light Brocade	<i>Lacanobia w-latinum</i>
Beautiful Brocade	<i>Lacanobia contigua</i>
Varied Coronet	<i>Hadena compta</i>
	<i>Hadena filigrana</i>
Shoulder-striped Wainscot	<i>Mythimna comma</i>
Minor Shoulder-knot	<i>Brachylomia viminalis</i>

Alder Moth	<i>Acronicta alni</i>
Brown Rustic	<i>Rusina ferruginea</i>
Angle Shades	<i>Phlogophora meticulosa</i>
Dark Arches	<i>Apamea monoglypha</i>
Reddish Light Arches	<i>Apamea sublustris</i>
Dusky Brocade	<i>Apamea remissa</i>
Marbled Minor	<i>Oligia strigilis</i>
Tawny Marbled Minor	<i>Oligia latruncula</i>
Uncertain	<i>Hoplodrina alsines</i>
Small Yellow Underwing	<i>Panemeria tenebrata</i>
Bordered Straw	<i>Heliothis peltigera</i>
Burnet Companion	<i>Euclidia glyphica</i>
Mother Shipton	<i>Callistege mi</i>
Silver-Y	<i>Autographa gamma</i>
Four-spotted	<i>Tyta luctuosa</i>

Systematic List Number 4 Birds

The taxonomic nomenclature and systematic order loosely follows both that of Voous (1977) and that found in Lars Jonsson's *Birds of Europe*. The emphasis was on plants and butterflies, so fewer birds than usual were recorded, with some of the lower sites such as St.Lorenc not visited.

Cattle Egret	<i>Bubulcus ibis</i>	From the motorway in France.
Little Egret	<i>Egretta garzetta</i>	From the motorway in France.
Mallard	<i>Anas platyrhynchos</i>	A pair on the upper lake, Aigues Tortes.
Black Kite	<i>Milvus migrans</i>	Widespread, seen on 6 days.
Red Kite	<i>Milvus milvus</i>	Scattered, locally common, e.g. Arreau area.
Lammergeier	<i>Gypaetus barbatus</i>	1 at Gavarnie.
Egyptian Vulture	<i>Neophron percnopterus</i>	A few near Tremp.
Griffon Vulture	<i>Gyps fulvus</i>	Widespread and locally common.
Short-toed Eagle	<i>Circaetus gallicus</i>	Day 9.
Common Buzzard	<i>Buteo buteo</i>	Widespread.
Golden Eagle	<i>Aquila chrysaetos</i>	Day 11.
Common Kestrel	<i>Falco tinnunculus</i>	Widespread in small numbers.
Quail	<i>Coturnix coturnix</i>	Heard at Perbes.
Yellow-legged Gull	<i>Larus cachinnans</i>	Lower altitudes.
Rock Dove/Feral Pigeon	<i>Columba livia</i>	Widespread.
Woodpigeon	<i>Columba palumbus</i>	Widespread in small numbers.
Collared Dove	<i>Streptopelia decaocto</i>	Scattered records, towns.
Cuckoo	<i>Cuculus canorus</i>	Often heard.
Common Swift	<i>Apus apus</i>	Widespread and common.
Hoopoe	<i>Upupa epops</i>	Heard in Spain.
Black Woodpecker	<i>Dryocopus martius</i>	Heard on Day 2.
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Widespread.
Woodlark	<i>Lullula arborea</i>	Heard on Day 2.
Crag Martin	<i>Ptyonoprogne rupestris</i>	Widespread and common.
Swallow	<i>Hirundo rustica</i>	Widespread and common.
House Martin	<i>Delichon urbica</i>	Widespread and common.
Tree Pipit	<i>Anthus trivialis</i>	Scattered records.
Water Pipit	<i>Anthus spinoletta</i>	Much in evidence above the tree line.
Grey Wagtail	<i>Motacilla cinerea</i>	Widespread near streams.
White Wagtail	<i>Motacilla alba</i>	Widespread in small numbers.
Wren	<i>Troglodytes troglodytes</i>	Scattered records.
Dipper	<i>Cinclus cinclus</i>	Scattered records along streams and rivers.
Dunnock	<i>Prunella modularis</i>	Scattered records at higher altitudes, e.g. Aigues Tortes.
Robin	<i>Erithacus rubecula</i>	Widespread.
Nightingale	<i>Luscinia megarhynchos</i>	Scattered records.
Black Redstart	<i>Phoenicurus ochruros</i>	Seen almost daily.
Whinchat	<i>Saxicola rubetra</i>	Vielha.
Stonechat	<i>Saxicola torquata</i>	Col de Perbes.
Northern Wheatear	<i>Oenanthe oenanthe</i>	Scattered high altitude records.
Blackbird	<i>Turdus merula</i>	Widespread.
Song Thrush	<i>Turdus philomelos</i>	Scattered records.
Mistle Thrush	<i>Turdus viscivorus</i>	Scattered records.
Cetti's Warbler	<i>Cettia cetti</i>	Heard regularly in La Guingeta.
Melodious Warbler	<i>Hippolais polyglotta</i>	Collegats.

Dartford Warbler	<i>Sylvia undata</i>	Col de Perbes.
Subalpine Warbler	<i>Sylvia cantillans</i>	Collegats.
Garden Warbler	<i>Sylvia borin</i>	Scattered records.
Blackcap	<i>Sylvia atricapilla</i>	Commonly heard or seen.
Chiffchaff	<i>Phylloscopus collybita</i>	Scattered records.
Willow Warbler	<i>Phylloscopus trochilus</i>	Scattered records.
Western Bonelli's Warbler	<i>Phylloscopus bonellii</i>	Often heard, sometimes seen.
Goldcrest	<i>Regulus regulus</i>	Scattered records.
Crested Tit	<i>Parus cristatus</i>	Val d'Eyne and Gavarnie.
Coal Tit	<i>Parus ater</i>	Segre, Val d'Eyne, Aigues Tortes, and Gavarnie.
Blue Tit	<i>Parus caeruleus</i>	Widespread.
Great Tit	<i>Parus major</i>	Widespread.
Golden Oriole	<i>Oriolus oriolus</i>	Often heard, La Guingeta, etc.
Jay	<i>Garrulus glandarius</i>	Widespread and common.
Magpie	<i>Pica pica</i>	Scattered records.
Alpine Chough	<i>Pyrrhcorax graculus</i>	Quite common at high altitudes.
Chough	<i>Pyrrhcorax pyrrhcorax</i>	Scattered records.
Jackdaw	<i>Corvus monedula</i>	Scattered records.
Carriion Crow	<i>Corvus corone corone</i>	Widespread and common.
Raven	<i>Corvus corax</i>	Scattered records.
Starling	<i>Sturnus vulgaris</i>	Scattered records.
House Sparrow	<i>Passer domesticus</i>	Widespread and common.
Snow Finch	<i>Montifringilla nivalis</i>	Tourmalet and Gavarnie area.
Chaffinch	<i>Fringilla coelebs</i>	Widespread and common.
Serin	<i>Serinus serinus</i>	Scattered records.
Citril Finch	<i>Serinus citrinella</i>	Widespread at higher altitudes. Seen on 5 days.
Greenfinch	<i>Carduelis chloris</i>	Scattered records.
Goldfinch	<i>Carduelis carduelis</i>	Scattered records.
Linnet	<i>Carduelis cannabina</i>	Widespread in small numbers.
Common Crossbill	<i>Loxia curvirostra</i>	Gavarnie.
Bullfinch	<i>Pyrrhula pyrrhula</i>	A few records.
Yellowhammer	<i>Emberiza citrinella</i>	Ossoue.
Cirl Bunting	<i>Emberiza cirlus</i>	Lower altitudes.
Rock Bunting	<i>Emberiza cia</i>	Scattered records.
Corn Bunting	<i>Miliaria calandra</i>	Scattered records at lower altitudes.

Systematic List Number 5 Mammals

European Mole	<i>Talpa europaea</i>	Hills noted
Shrew spp.		Dead individuals at Aigues Tortes and ?
Red Fox	<i>Vulpes vulpes</i>	La Guingeta
Pyrenean Chamois	<i>Rupicapra pyrenaica</i>	Err-Puigmal and Gavarnie
Fallow Deer	<i>Dama dama</i>	Aigues Tortes
Roe Deer	<i>Capreolus capreolus</i>	Scattered records
Alpine Marmot	<i>Marmota marmota</i>	Introduced. Locally common at higher altitudes. Numerous around Gavarnie.
Wild Boar	<i>Sus scropha</i>	Much evidence of rooting activity seen.
Red Squirrel	<i>Sciurus vulgaris</i>	A few records, e.g. Aigues Tortes

Systematic List Number 6 Reptiles and Amphibians

Fire Salamander	<i>Salamandra salamandra</i>	Larvae in roadside streamlet at Rioumajou
Pyrenean Brook Newt	<i>Euproctus asper</i>	1 in the usual stream near Gavarnie, and a pair at Troumouse
Common Frog	<i>Rana temporaria</i>	Scattered records
Iberian Water Frog	<i>Rana perezi</i>	Ponds at Col de Perbes, Collegats, etc.
Green Lizard	<i>Lacerta viridis</i>	A few records
Common Wall Lizard	<i>Podarcis muralis</i>	Scattered records
Iberian Wall Lizard	<i>Podarcis hispanica</i>	Scattered records
Slow Worm	<i>Anguis fragilis</i>	Upper Tor meadows
Western Whip Snake	<i>Coluber viridiflavus</i>	Lower Tor road (stop 3)
Grass Snake	<i>Natrix natrix</i>	Below Tourmalet
Viperine Snake	<i>Natrix maura</i>	Collegats pond
Asp Viper	<i>Vipera aspis</i>	Gavarnie

Systematic List Number 7

Dragonflies

<i>Ischnura elegans</i>	Blue-tailed Damselfly
<i>Ischnura graellsii</i>	Iberian Bluetail
<i>Pyrrososma nymphula</i>	Large Red Damselfly
<i>Gomphus simillimus</i>	Yellow Clubtail
<i>Gomphus pulchellus</i>	Western Clubtail
<i>Cordulegaster boltonii</i>	Golden-ringed Dragonfly
<i>Libellula quadrimaculata</i>	Four-spotted Chaser
<i>Libellula depressa</i>	Broad-bodied Chaser
<i>Orthetrum coerulescens</i>	Keeled Skimmer
<i>Leucorrhinia dubia</i>	White-faced Darter
<i>Sympetrum fonscolombii</i>	Red-veined Darter