

Central Italian Alps

Stelvio National Park *Primulas, Saxifrages, Gentians*

A Greentours Tour Report

29th June to 7th July 2024

Led by Paul Cardy

Trip Report and Systematic Lists written by Paul Cardy

Days 1 to 3 Saturday 29th June to Monday 1st July Brescian Prealps and Bergamasche Orobienne Alps

Following an excellent Dolomites tour, we met Keith and Eileen, and Otto, at Venice Marco Polo. Nearby, we collected Mary from her hotel. There was time for a stroll along a quiet leafy lane not far from the airport for some fresh air after everyone's journeys. It was of course hot. *Ulmus laevis* was in the hedgerow, *Althaea officinalis* was a good addition to the list, and Spotted Fritillary was on the wing.

Before long we were traveling west across the northern Italian plains. We stopped at a service station where I bought everyone panini for lunch. Paddyfields had naturalised African Sacred Ibis, White Storks, and a selection of herons and egrets.

We left the autostrada near Brescia and our route took us along the scenic shores of Lake Iseo. We had a short stop here for the views of the lake, Great Crested Grebe on the water.

This year we were staying at a new hotel for us, in the spa town of Boario Terme. It was immediately apparent that this was an ideal choice. The staff were welcoming and helpful, the situation ideal, and the rooms very comfortable.

Thanks to Keith for saving the day, when on arrival the seat belt got caught in the sliding mini-bus door, jamming it, he climbed inside through the back and after some effort managed to free it!

We enjoyed a good welcome dinner in the hotel restaurant.

On Sunday we headed east into the Brescian Prealps where we had a superbly productive day. Whilst the group enjoyed a good breakfast selection in the hotel I had done the picnic shopping. We drove along the usual minor roads, having left the main Camonica Valley, busy up here today of course, but at our many stops we soon avoided the motorbikes, cyclists, and cars.

This was a superbly rich area botanically. It was marvellously wild, with many superb views even though we were only in the prealps, the highest peaks being at around 2200m. We touched on the southern parts of the Adamello Natural Park.

Orchids were quite a feature today. *Gymnadenia odoratissima* flowered with the much commoner *Gymnadenia conopsea*. *Traunsteinera globosa* was just in flower, there was *Leucorchis albida*, and several Frog Orchids. *Cephalanthera longifolia* was in fine flower. *Pedicularis verticillata* was a feature, the stately *Molopospermum peloponessiacum* was in bloom, there was fine *Gentiana punctata*, and *Saxifraga stellaris*. Acidic slopes had *Rhododendron ferrugineum*, very many *Onobrychis montana* were in impressive flower, *Pedicularis ascendens*

was numerous, Globe Flowers were a feature, and one of the most notable finds was several *Pedicularis recutita* in fine flower.

The large composite *Stemmacantha rhapontica* was a highlight. Rampions featured with *Phyteuma ovatum*, *Phyteuma betonicifolium*, *Phyteuma orbiculare*, and *Phyteuma hedraianthifolium*. Vast numbers of *Anemone narcissiflora* were still in flower, and *Pulsatilla alpina* was numerous. Primulas were to be a feature of the tour and stunning *Primula glaucescens* was a highlight today, in fine flower. This is a classic central alps endemic, very much centred on the area of the tour. *Primula daonensis* was also in fine flower, another speciality. There were even a few Oxlips still in flower this year. The woodrushes *Luzula alpina* and *Luzula lutea* were common. Dark Columbine was beautiful, and Net-leaved Willow and Retuse-leaved Willow were in attractive flower. *Cardamine asarifolia* was numerous in a wet flush, and *Soldanella pusilla* was locally numerous by recent snowmelt. Trumpet Gentian and Spring Gentian were in perfect condition and we saw one Bavarian Gentian. The great variety continued with *Veronica aphylla*, *Globularia cordifolia*, *Globularia nudicaulis*, *Pinguicula alpina*, *Pinguicula vulgaris*, *Campanula barbata*, *Horminum pyrenaicum*, and *Centaurea pseudophrygia*.

Wet flushes had *Saxifraga stellaris* and a fine selection of sedges and rushes. On calcareous substrate *Rhododendron hirsutum* bloomed, and *Saxifraga hostii rhaetica*, one of our target species, cascaded superbly from a cliff face. *Pinguicula leptoceras* was admired. There were *Tephrosieris tenuifolia*, *Hypericum maculatum*, *Polygonum bistorta*, *Senecio alpinus*, and *Viola biflora*. On roadside rocks was *Arenaria multicaulis* at the only place we would see it. Short-toed Eagle hovered.

A pleasing find was a good number of the pink flowered *Scorzonera rosea* at the last stop, a very rich flowery meadow and a new site for us. At this last stop a Fiat Cinquecento rally drove past, and we all waved to each other.

We took a rather long route back towards Lake Iseo, passing several interesting abandoned mines, arriving back after a very productive day, with time to change and relax before another enjoyable dinner.

As we drove back the brakes started making an alarming sound. They were functioning but obviously something was wrong. This had to be fixed, we couldn't risk a brake problem. The hotel were immensely helpful to me, recommending a nearby mechanic. It did mean a delayed start the next day, but so be it. I'd agreed a meeting time so I could update the group, and we met in the lobby just as the mechanics arrived. I took them to the vehicle and the prognosis was good, it should be fixable this morning. Great.

So there followed that unusual thing, a free morning. Some relaxed, some explored the town. Keith and Eileen found a leafy park with some wild areas. I worked on some paperwork.

Great news at midday, I walked to the car park and was delighted to see the mini-bus had been returned. All fixed, we soon set out, and after a quick picnic shop in the very good supermarket, we headed up the Val di Scalve. A short stop in the gorge had fine clumps of *Corydalis lutea*, a familiar cottage garden plant, but a local endemic originating from here. *Laserpitium siler* and *Phyteuma scheuchzeri columnae* were in flower, and *Impatiens parviflora* was naturalised.

Through some long tunnels, we parked where a section of the old road is now an excellent path outside one of the tunnels, and I set up the picnic. Whilst the group was eating I saw Southern White Admiral, Pearly Heath, Green Hairstreak, Holly Blue, and the highlights Purple Emperor and Stygian Ringlet. Gold-ringed Dragonfly patrolled. There were rumbles of thunder, and rain came just as we embarked on our walk along the old road.

So that put a stop to any more butterflies. On the cliffs bloomed the endemic *Telekia speciosissima*. *Helleborus niger* was in leaf, *Campanula carnica* in flower, and we saw *Cyclamen purpurascens*, *Thesium divaricatum*, and Bloody Cranesbill. Among the ferns were Maidenhair Spleenwort, Wall-rue, Brittle Bladder-fern, and Limestone Fern.

Heavy rain came and we took shelter. Once the rain was lighter we returned to the mini-bus and I drove us to Presolana Pass in the hope of escaping the rain. That we did, the rain more or less stopped, but all the meadows

here had been recently cut so there was little to see. Back over the pass, a stop gave fine views up to the higher snowy peaks of the Rhaetian Alps, and Rock Soapwort was in flower.

Next, now in sunshine, was a superb stop along the narrow road to Borno, a spot we used to visit when we stayed in that town. Things began well with Dark Red Helleborine, Lesser Butterfly Orchid, and *Gymnadenia odoratissima*, and continued with *Stachys recta*, *Cytisus nigricans*, *Peucedanum austriacum rablense*, *Laserpitium peucedanoides*, *Cirsium erisithales*, and *Galium laevigatum*.

Zygaena romeo was a good find, not given for Bergamo Province in 'Butterflies and Burnets of the Alps'. The more widespread *Zygaena transalpina* was here too. High Brown Fritillary was admired, attracted to salts on the road. Woodland Brown and the much commoner Pearly Heath flew through the trees, Pearl-bordered Fritillary and Heath Fritillary were here, and Large Skipper nectared. There was a healthy colony of Duke of Burgundy and highlights were a female Purple-shot Copper and Large Blue. In flower were *Stachys alopecuroides*, *Asperula aristata*, *Tofieldia calyculata*, *Linum catharticum*, *Koeleria pyramidata*, and *Anthericum ramosum*. The black and white pyralid *Anania funebris* was very attractive and the small bright yellow wave *Idaea flaveolaria* was admired.

There followed a scenic drive home.

I leave in this report an account of our visit to Pizzo Arera from a previous tour. Despite the brake situation, we had already decided not to do this this year, as it now means a rather long walk to the refugio before reaching the more botanically productive area. Previously we had been driven to the refugio in a 4WD, but the refugio owners no longer offer this service.

'We spent the next day in the Orobie Alps in Bergamo province, a fascinating area, where although the highest peaks are only at about 2,500m, the mountains are very steep, making access to the higher areas somewhat difficult. From Boario, rather a long drive took us west to the slopes of Pizzo Arera, where a toll road leads to a car park at 1650m, from where the track rises up towards a refuge, at 2000m, where begins the 'path of flowers', along which are some very special things.'

'As we ascended the flowers were many and superb.'

'Edelweiss flowered in the turf. Soon we located some of the area's real specialities. *Linaria tonzigii* is a very rare endemic toadflax, and we were very pleased to find many plants in fine flower. The endemic *Galium montis-arerae* takes its name from the mountain, and was floriferous. *Primula glaucescens* was mostly in fruit, but we found some in fine flower. The beautiful endemic *Viola dubyana* was a highlight, with several in flower, and lower down very many indeed. *Thlaspi rotundifolium* was still in flower this year. A plant I was particularly hoping to find was *Allium insubricum*. This beautiful species is close to *Allium narcissiflorum* which blooms further west, in my area of the Alps. We saw many superb examples of this most special allium today. *Minuartia grignensis* was another endemic. *Saxifraga caesia* was in bud and the butterwort common here was *Pinguicula leptoceras*. *Pinguicula alpina* was in fine form too.'

'Many Painted Ladies flying over the limestone slopes was a feature today and the only Apollos of the tour were here. Plants continued with *Globularia nudicaulis* and *Globularia cordifolia* both in numerous flower, and Alpine Poppies in fine bloom. Among the many other species seen in the area were *Valeriana saxatilis*, *Linum alpinum*, *Pedicularis ascendens*, *Athamanta cretensis*, *Achillea clavennae*, *Primula auricula* just still in bloom, *Cystopteris alpina*, *Salix reticulata*, *Petrocallis pyrenaica*, *Kerneria saxatilis*, *Pritzelago alpina*, *Erica carnea* still in flower, and *Doronicum columnae*.'

'A hearty lunch was enjoyed in the refuge. It was time for some exercise after all that polenta, so we set out on foot back down the mountain. Dewy Ringlet was common over the open turf. Lower down was fine *Saxifraga hostii rhaetica* and the stately *Stemmacantha rhapsodica* was abundant in lower pastures, although not quite in flower. The *Viola dubyana* was stunning. I was pleased to find a few plants of *Ranunculus thora* in flower, this distinctive species having been new for the tour last year.'

‘Darwin’s Heath was a butterfly highlight and also here were Purple-edged Copper, Lesser Mountain Ringlet, Duke of Burgundy, Grizzled Skipper, Large Grizzled Skipper, and Olive Skipper. A small pond had several Odonata.’

‘Again, here were many *Traunsteinera globosa*. One fine patch of the unusual and very local endemic *Sanguisorba dodecandra* flowered beside the track. A man walked past us as we were admiring this and I was pleased to be able to point out its importance as a rather surprising local endemic limited only to Bergamo and Sondrio provinces. Almond-eyed Ringlet was seen.’

‘Water Pipit, Black Redstart, Northern Wheatear, and Alpine Choughs were typical of these higher slopes.’

‘It was time to start the drive back to Boario. We stopped soon however, for two very tall *Orobanche rapumgenistae* flowering at the forest edge. *Corydalis lutea* was seen on roadsides near Colere. We arrived back early evening after a very productive day.’

Back to 2024.

Among the many other plants seen in the area, mostly more widespread species, were Holly Fern, Moonwort, Alpine Gypsophila, Kerneria, Golden Cinquefoil, Yellow Wood Violet, Great Masterwort, *Adenostyles alpina*, *Dryas octopetala*, *Digitalis grandiflora*, *Tofieldia calyculata*, and *Anthericum ramosum*.

Day 4 Tuesday 2nd July

Journey to Rhaetian Alps

We said our farewells to Boario Terme and set off north towards Stelvio National Park, again taking the road along the Val di Scalve and its impressive gorge.

We again walked the old road, today in sunshine. Here was a butterfly highlight, with a superb Lesser Purple Emperor of the *clytie* form basking on the rocks, and Purple Emperor seen again too. It’s always special to see both species at the same site. White Admiral was here today, yesterday we had seen *reducta* here. Also on the wing were Comma, Silver-washed Fritillary, and Stygian Ringlet. Orange Lilies and *Teucrium montanum* flowered.

A beautiful minor route took us through fine forest, to a low pass, the acidic pastures at the top floriferous. *Ornithogalum pyrenaicum* flowered under the trees, and I spotted *Scorzonera rosea* as we drove, at a new site for the species.

The next stop had *Phyteuma scheuchzeri columnae* on roadside rocks. Laburnum was again a feature in fine flower, and we saw both species closely today. *Bupleurum falcatum cernuum* was new for us, *Veronica fruticans* was in flower, and St. Bernard’s Lilies flowered on the slope above us. *Saxifraga hostii* and *Saxifraga paniculata* flowered next to each other, and we found the hybrid between them, the local speciality, *x subrhaetica*. Among butterflies here were Little Blue, Large Wall Brown, Silver-studded Blue, Woodland and Almond-eyed Ringlets and Oberthur’s Grizzled Skipper. There were also superb views here of the Orobienne Alps, from these beautiful narrow quiet roads.

Vivione Pass had a very interesting flora. The boggy flushes here supported many sedges, especially many lovely *Carex pauciflora* for those of us who appreciate the smallest of flowers, and *Carex canescens*, *Carex brizoides*, *Carex paupercula*, *Carex elata*, *Trichophorum caespitosum*, *Eriophorum vaginatum*, and *Eriophorum angustifolium*. *Dactylorhiza majalis* and *Dactylorhiza lapponica* were in flower. The dragonfly Alpine Emerald was typical of the habitat. In the small lake here was *Sparganium angustifolium* and *Astrantia minor* flowered in the turf. I set out the picnic in this fine habitat, on a conveniently situated table.

Fine *Molopospermum peloponnesiacum* was in flower. Further down another stop had Arran Brown, Limestone Woundwort, and Ostrich Fern.

I had decided to take the main road this year to Bormio and thence to Sta.Caterina, rather than the minor roads across Passo Gavia, which we would visit tomorrow.

A short stop as we approached Sta. Caterina allowed a leg stretch and had many flowers, such as *Senecio ovatus*, and moths and other insects.

In Sta.Caterina our base is a fine family run hotel with beautiful rooms and a very good restaurant. A challenge this year was working out how to use the QR code to get the menus on our phones. Help came from the receptionist, and the owner's daughter, who found a tablet for us, much easier to use, and by the next evening they'd even printed the menu for us. Maybe that will catch on one day, a printed menu that can be read to chose what one wants to order!

Days 5 to 8 Wednesday 3rd to Saturday 6th July Rhaetian Alps

The first morning saw us heading to the Gavia Pass, not too far above the hotel. The weather was changeable, overcast, with light rain. Unusual here, at this time we usually enjoy clear blue skies every day. We spent the whole day exploring in more detail the fine mostly acidic habitats either side of the pass, and the pass itself. There were of course several motorbikes and bikes today, but not as busy as a weekend.

Our first stop was at a site which had been a great find several years ago, when a promising cliff face beside the river proved to be a superb site. Here were *Saxifraga seguieri*, *Saxifraga androsacea*, and *Saxifraga oppositifolia*, many fine Snowdon Lilies, Fir Clubmoss, Arolla Pine, *Daphne cneorum*, *Phyteuma hemisphaericum*, and *Gentiana brachyphylla*. There were many interesting bryophytes, including *Orthothecium rufescens*, *Tortella tortuosa*, and *Rhytidium rugosum*, and the lichen *Solorina spungiosa* was attractive.

A walk alongside the fast flowing river was very floriferous. Here were swathes of superb Bird's-eye Primrose. *Silene acaulis* and *Silene exscapa* were both here, on different substrates. *Sedum atratum* and *Trifolium badium* were in flower, and *Saxifraga stellaris* bloomed at the waterside.

Having reached the pass, a walk along a remarkable old military road, dating from the First World War, led us to fine habitat. All around was stunning scenery, and very much remaining snow this year, indeed covering much of what we usually see. *Soldanella pusilla* was in vast numbers. *Sibbaldia procumbens* was just in flower, *Primula glutinosa* was in fine flower, and cushions of *Minuartia sedoides* were covered in green flowers.

Deep snow lay in a gully where usually we would have seen *Saxifraga seguieri*, *Ranunculus glacialis*, *Arenaria biflora*, *Primula daonensis*, and *Leontodon helveticus*.

Typical of the habitat were Snow Finches, Alpine Choughs, and Northern Wheatear. A wet slope here is usually a productive butterfly site, notably for Small Apollo, but the unusual weather this year meant no butterflies at all!

I drove below the pass, through dense fog, the narrow road a challenge, and very atmospheric in these conditions. Ibex was very close to the road at one of the hairpin bends. The fog even penetrated the tunnel we drove through. Having parked in one of the few wider lay-bys I set out the lunch in the back of the mini-bus, and it was eaten in the shelter of the vehicle. Those who braved the weather with me saw fine Alpine Aster, Alpine Fleabane and *Linaria alpina* among many other things. I was very pleased to find the diminutive *Gentiana tenella* in flower, a species we hadn't seen here for several years.

In more typical weather we would have walked a section of old road, alongside the tunnel, where Edelweiss blooms. But again nearing the pass, fine cushions of *Saxifraga bryoides* prompted the next stop.

The bog at the pass had only recently lost its snow cover. Here *Eriophorum scheuchzeri* is a feature of boggy flushes, where the beautiful *Gentiana bavarica* flowers, but the flora was very backward this year. We did however see *Cardamine alpina*, blooming around a small chapel, *Salix herbacea* is usually in attractive bloom here, and *Cerastium cerastoides* in flower in the wet flushes.

Back on the northern slopes of the pass there was much Bearded Bellflower on the roadsides, distinctive silvery *Salix glauco-sericea*, and *Doronicum clusii*. Nutcrackers landed atop the spruces.

There was time to explore another valley above Santa Caterina with a fine flora, reached via a toll road. A late afternoon stroll here produced fine *Sempervivum arachnoideum* and *Sempervivum montanum*, *Pulmonaria australis*, *Euphrasia minima*, and *Euphrasia rostkoviana*. Hobby sped past, Redpoll sang atop the trees, and a pair of Lesser Whitethroats worked through the foliage.

On Thursday we spent the day exploring the heart of Stelvio National Park, driving the exciting road up to Stelvio Pass, at 2758m. It's an amazing area. We enjoyed better weather, although higher up there was still much snow, and indeed there is all year skiing here.

No fewer than forty five bends took us up through a transect of altitudinal vegetation zones with many fine views all the way up, the pass itself close to the Swiss border, and on the border with Bolzano Province. Here we were at an altitude that I could also reach by road in the valley I used to live in, but this is something unusual in the Alps where such heights are usually reached on foot, or by chair lifts and cable cars. Many cyclists were as always a feature here, even on this midweek morning, very many working their way up to the pass.

A short first stop had many *Ranunculus glacialis* and *Pulsatilla vernalis* in flower. Coltsfoot in flower indicated the late season. *Soldanella alpina* and *Soldanella pusilla* were in fine form, and *Luzula lutea* was here. At the pass with its hulks of ski hotels, frankfurter stalls, and kitsch souvenirs on offer we had a short walk, the sun shining. Again heavy snow lay late this year and the flora was a little backward, but we still found much of interest and most of the expected species. There was much fine *Saxifraga oppositifolia*, *Saxifraga androsacea*, Alpine Poppies in flower, *Arabis alpina*, *Arabis caerulea*, and *Pritzelago alpina*. There was more superb *Ranunculus glacialis*. Snow Finches had favoured perches on the buildings.

Alpine Choughs were much in evidence. A highlight was an incredibly close Lammergeier, and we had great views as it soared over our heads, so near to us. Peak White flew over the slopes.

We made an excursion into Switzerland, and walked to a small lake, the slopes very flowery. *Achillea atrata* and *Doronicum clusii* were here and there was *Primula hirsuta* in flower. Gentians were in superb form, with *Gentiana acaulis*, *Gentiana clusii*, and *Gentiana verna*. Grizzled Skipper and Alpine Blue mud puddled and the pyralid *Metaxmeste schrankiana* was here.

Back in Italy I set out the lunch. The slopes above the river here had very many Moonworts, Frog Orchids, fine *Nigritella rhellicani*, and *Juncus trifidus*.

Next was a productive but quite demanding walk on calcareous substrate, along one of the many trails inside the park. On the recce a highlight here had been a Lammergeier that flew remarkably close over my head, later both it and me causing the Marmots to whistle alarms calls! Today, we were very pleased to find the very special *Ranunculus alpestris*, *Papaver aurantiacum* in fine bloom, and *Hieracium glaucum*. There was lovely *Saxifraga caesia* and *Pedicularis rostratocapitata* was a new lousewort.

Above us were Ibex, on a ledge, as so often not really worried by our presence. We had superb views of a pair of Lammergeier, first in the air, then landing on the cliffs where they were probably nesting. Plants continued with *Arenaria ciliata*, *Oxytropis campestris*, and *Astragalus alpinus*.

Back in the vehicle we checked out a site for *Chamorchis alpina* but as at all my sites for this special diminutive orchid this year, it was not in flower.

Just above Bormio we took a forest walk. *Epipactis atrorubens* and *Epipactis helleborine* were both here, and *Thalictrum foetidum*, *Saponaria ocymoides*, *Potentilla caulescens*, and Wood Pink were in flower. We were

very pleased to find several Bird's-nest Orchids in fine condition. *Campanula carnica* was attractive, and *Astragalus australis* and *Astragalus hypoglottis gremlii* were both here. Marbled Whites were on the wing.

The next morning saw us visiting the Val Viola, to the west of Bormio. This was a beautiful place where again the sun shone and we saw many butterflies. Accessed via a toll road, one has to pay for a parking ticket at the start of the road. Machines now of course, no human as there used to be to collect the money. Red Squirrel bounded along the road in front of us. The approach road was quiet but we arrived at the upper car park to find many cars already parked. We set out on foot and walked some way up the gently climbing path, the higher reaches of which lead to the Viola refuge, and eventually the pass, the border with Switzerland. The scenery was sublime.

An early highlight was fine *Sempervivum wulfenii*, in leaf and bud, together with much *Sempervivum montanum* and apparent hybrids between the two. There was much *Veronica fruticans*, *Gentiana bavarica* in wet flushes, *Saxifraga stellaris*, attractive *Potentilla grandiflora*, and *Polygala chamaebuxus* in the shade. *Phyteuma betonicifolium* was numerous, and *Bupleurum stellatum* and *Carex fimbriata* were here. Tree Pipit performed display flights, Redpolls were peripatetic, and Dunnock sang.

Butterflies began with Sooty Copper, Little, Idas and Mazarine Blues, and Northern Wall Brown rather common, Large Wall Brown here too. Cranberry Blue was a highlight, always a special find, and here too were Green Hairstreak, Pearl-bordered Fritillary, and Alpine Heath. The moths *Anania funebris* and Small Purple-barred were on the track.

Black Vanilla Orchids were in fine form and wet flushes had *Pinguicula leptoceras*, *Primula farinosa*, and *Dactylorhiza lapponica*. Moorland Clouded Yellow was a highlight, with several flying over the slopes, a scarce species. There were a large number of Swallowtails here. The umbel *Laserpitium gaudinii* was in flower and *Seseli libanotis daucifolium* was numerous, this subspecies having very finely divided leaves. Moths continued with Clouded Buff and Chimney Sweeper.

The variety continued with *Trifolium spadiceum*, *Plantago maritima serpentina*, *Campanula barbata*, *Phyteuma hemisphaericum*, *Juncus trifidus*, *Hypochoeris uniflora*, *Crepis aurea*, *Gentiana nivalis*, *Pedicularis verticillata*, and *Pedicularis tuberosa*. A pleasing find was *Viola thomasiana* in flower at the forest edge, new for the tour.

I set out lunch away from the busy car park by a small lake in the forest.

We drove through attractive small villages to Oja Bog, hidden in the forest, where was an interesting acidic bog flora. Among plants seen here were *Parnassia palustris*, *Sanguisorba officinalis*, *Drosera rotundifolia* in leaf, and robust Lesser Butterfly Orchids. Sedges were a feature, among them *Carex paniculata*, dominant *Carex rostrata*, *Carex umbrosa*, *Carex demissa*, *Carex echinata*, and *Trichophorum alpinum* as well as *Trichophorum caespitosum*. *Dactylorhiza cruenta* and *Dactylorhiza incarnata* were in bloom. *Vaccinium gaultherioides* was distinctive, Bog Rosemary was in fruit, and *Vaccinium microcarpum* in flower. One spike of *Triglochin palustris* was found. Four-spotted Chaser was numerous here and *Aeschna juncea* hawked over the bog. Bogbean was located, one of the information boards prompting us to look for it. The variety continued with *Polygala amarella*, *Gentiana campestris*, and *Epilobium palustre*.

May-lilies grew at the forest edge and *Ranunculus platanifolius* was in flower. Nutcrackers were much in evidence as at many sites during the tour, here making a variety of calls.

The next day saw us visiting five passes, the furthest in Switzerland.

Having driven through the duty free enclave of Livigno, meadows full of bistort, we reached the pass, the border with Switzerland. *Senecio doronicum* was on roadsides among a wealth of other flowers. We were greeted by abundant Snowdon Lilies, *Ranunculus glacialis* and *Saxifraga seguieri* in fine flower, and Mountain Crowberry a characteristic plant of these acidic slopes. *Soldanella pusilla* was still in abundant flower by

snowmelt. *Pulsatilla vernalis* and *Ranunculus kuepferi* were also still in fine form and *Silene exscapa* was typical of the acidic rocks. *Salix herbacea* was in attractive flower and Fir Clubmoss was here.

Primula latifolia and *Primula hirsuta* were in fine flower, with some hybrids between the two. Some of the *Primula hirsuta* had a rust on their leaves, likely an interesting species. *Carex curvula* turf was closely associated with abundant flowering *Loiseleuria procumbens*.

We made a lengthy excursion into Switzerland in search of the very local endemic Little Fritillary, and some special plants. Past meadows full of *Silene flos-cuculi* and fine patches of *Hieracium aurantiacum*, our destination was a pass above the Inn Valley, where fine alpine pasture was towered over by scree slopes and snow capped peaks. Indeed deep snow lay very late this year at the pass itself. I bought panini from the characterful refuge, but my were they expensive, we were certainly in Switzerland!

Despite the late snow the flowers were already superb here. The foodplant of our target butterfly, *Plantago alpina*, was immediately common. But despite intensive searching for a couple of hours there were no Little Fritillaries today. It was simply not yet on the wing. Mountain Green-veined White was the only butterfly we saw. We could also not locate the hoped for *Chamorchis alpina*.

Concentrating on the plants, *Ranunculus alpestris* was common, *Viola calcarata* was in flower, and there were fine *Androsace chamaejasme* and *Androsace obtusifolia*. Among the many other plants here were *Dactylorhiza majalis*, *Pinguicula alpina*, *Empetrum nigrum*, many *Primula farinosa*, *Veronica aphylla*, Moonwort, *Salix serpyllifolia*, *Plantago atrata*, *Draba aizoides*, *Soldanella pusilla*, *Soldanella alpina*, *Sibbaldia procumbens*, *Oxytropis campestris*, *Leucanthemopsis alpina*, *Carex bicolor*, *Carex rupestris*, and *Gentiana brachyphylla*. This was an interesting mixture of calcifuges and calcicoles.

Back through Livigno a forested track had *Lonicera caerulea*, *Valeriana tripteris*, and the attractive moth Scallop Shell.

That evening we enjoyed another dinner in the excellent hotel and reflected on a fine productive tour and all that we'd seen.

Day 9 Sunday 7th July

Departure

Once loaded, after breakfast and fond farewells to all at the hotel, we headed down to Bormio, down the Valtellina, across to Val Camonica and along attractive minor roads to the environs of Bergamo. We joined the autostrada and headed to Linate where we said goodbye to Otto, had a break, and took the opportunity for lunch panini.

I then drove us purposefully west towards the Maritime Alps, the third of the Greentours Alpine trilogy, that trip beginning the following day. I negotiated the as usual busy Milan tangenziale, then we headed west, into Piemonte.

We stayed the night at my home, and everyone loved my village and hotel. This was an ideal location to spend the transfer night and that afternoon and the following morning allowed us to visit some of my favourite sites in the area. We saw much of interest.

That evening my wife Fabiana joined us for an excellent dinner in the elegant dining room.

Central Italian Alps Systematic Lists 2024

Compiled by Paul Cardy

Itinerary

- Day 1. Saturday 29th June. Venice, to Brescia. Lake Iseo. Darfo Boario Terme.
Day 2. Sunday 30th June. Brescian Prealps.
Day 3. Monday 1st July. Boario Terme. Val di Scalve. Presolana. Borno.
Day 4. Tuesday 2nd July. Val di Scalve. Passo Vivione. Aprica. Valtellina. Sta. Caterina, Valfurva.
Day 5. Wednesday 3rd July. Passo Gavia. Santa Caterina Valfurva.
Day 6. Thursday 4th July. Stelvio National Park. Stelvio Pass.
Day 7. Friday 5th July. Val Viola. Oga Bog.
Day 8. Saturday 6th July. Foscagno. Livigno. Albula Pass.
Day 9. Sunday 7th July. Santa Caterina Valfurva to Linate. Departure, or to Maritime Alps.

Systematic List Number 1 Plants

Nomenclature and systematic order follow 'Flora Alpina', by Aeschimann et al., 2004. Species added this year are annotated 2024. Species not seen this year are annotated with the year in which we last saw them. All species with no year annotation were of course seen this year too!

A. PTERIDOPHYTA Ferns and their allies

Lycopodiaceae

<i>Huperzia selago</i>	Fir Clubmoss	Gavia and Livigno Pass.
<i>Lycopodiella inundata</i>	Marsh Clubmoss	Day 3 on recce.
<i>Lycopodium annotinum</i>	Interrupted Clubmoss	Oga Bog.
<i>Lycopodium clavatum</i> <i>ssp.clavatum</i>	Stag's-horn Clubmoss	Gavia.
<i>Diphasiastrum alpinum</i>	Alpine Clubmoss	Foscagno and Switzerland, 2023.

Selaginellaceae

<i>Selaginella selaginoides</i>	Lesser Clubmoss	Scattered records, e.g. Brescian Prealps.
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Equisetaceae

<i>Equisetum variegatum</i>	Variegated Horsetail	Above Sta.Caterina Valfurva.
<i>Equisetum fluviatile</i>	Water Horsetail	Wetlands.
<i>Equisetum palustre</i>	Marsh Horsetail	Oga Bog.
<i>Equisetum sylvaticum</i>	Wood Horsetail	
<i>Equisetum arvense</i>	Common Horsetail	Scattered records.
<i>Equisetum telmateia</i>	Giant Horsetail	Below Aprica.

Ophioglossaceae

<i>Botrychium lunaria</i>	Moonwort	Widespread, with great variation in size, e.g. Stelvio, Brescian Prealps, Sta.Caterina Valfurva.
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Polypodiaceae

<i>Cryptogramma crispa</i>	Parsley Fern	Vivione and Val Viola, 2017.
<i>Polypodium cambricum</i>	Southern Polypody	Val Viola.
<i>Polypodium vulgare</i>	Common Polypody	Below Vivione
<i>Pteridium aquilinum</i>	Bracken	Widespread.
<i>Phegopteris connectilis</i>	Beech Fern	Vivione rocks.
<i>Asplenium trichomanes</i>	Maidenhair Spleenwort	Locally very common.
<i>Asplenium viride</i>	Green Spleenwort	Limestone ledges and boulders, e.g. Arera and Brescian Prealps.
<i>Asplenium adiantum-nigrum</i>	Black Spleenwort	Oga Bog 2019.
<i>Asplenium septentrionale</i>	Forked Spleenwort	Vivione 2018.
<i>Asplenium ruta-muraria</i>	Wall-rue	Scattered records, locally common.
<i>Asplenium scolopendrium</i>	Hart's-tongue	Val di Scalve.
<i>Athyrium filix-femina</i>	Lady-fern	Forests.
<i>Athyrium distentifolium</i>	Alpine Lady-fern	Brescian Prealps, Stelvio NP.
<i>Cystopteris fragilis</i>	Brittle Bladder-fern	Widespread.
<i>Cystopteris alpina</i>	Alpine Bladder-fern	Arera 2023.
<i>Gymnocarpium dryopteris</i>	Oak Fern	Scattered records.
<i>Gymnocarpium robertianum</i>	Limestone Fern	Scattered records.
<i>Matteucia struthiopteris</i>	Ostrich Fern	Below Vivione.
<i>Polystichum lonchitis</i>	Holly Fern	Brescian Prealps, Val Viola.
<i>Polystichum aculeatum</i>	Hard Shield Fern	Recorded.
<i>Dryopteris filix-mas</i>	Male Fern	Scattered records.
<i>Dryopteris affinis</i>	Scaly Male Fern	Scattered records.
<i>Dryopteris villarii</i>	Rigid Buckler Fern	Arera 2023.
<i>Dryopteris dilatata</i>	Broad Buckler Fern	Vivione.
<i>Dryopteris abbreviata</i>		Vivione.

B. CONIFEROPSIDA Conifer trees and their allies

Pinaceae

<i>Abies alba</i>	Silver Fir	
<i>Picea abies</i>	Norway Spruce	Widespread - main forest dominant at mid-altitudes.
<i>Larix decidua</i>	European Larch	Frequent in middle altitudes, locally dominant just below treeline.
<i>Pinus sylvestris</i>	Scots Pine	Forest at middle altitudes.
<i>Pinus mugo mugo</i>	Dwarf Mountain Pine	Often dominant 1800-2100m, and also at lower altitudes.
<i>Pinus mugo uncinata</i>	Mountain Pine	Scattered records, e.g. Stelvio.
<i>Pinus cembra</i>	Arolla Pine	Higher altitudes, e.g. Gavia.

Cupressaceae

<i>Juniperus communis</i> ssp. <i>communis</i>	Juniper	Scattered records.
<i>Juniperus communis</i> ssp. <i>alpina</i>		Higher altitudes.

C. ANGIOSPERMS - DICOTYLEDONES

Ranunculaceae

<i>Helleborus niger</i>	Christmas Rose	In leaf west of Borno, and Val di Scalve gorge.
<i>Trollius europaeus</i>	Globeflower	Brescian Prealps.
<i>Aconitum lycoctonum</i>	Wolfsbane	Scattered records.
<i>Aconitum anthora</i>		In leaf.
<i>Aconitum napellus</i> ssp.vulgare	Monk's-hood	In leaf.
<i>Anemone narcissiflora</i>	Narcissus Anemone	Still abundant in fine flower in Brescian Prealps
<i>Hepatica nobilis</i>	Hepatica	Scattered in leaf.
<i>Pulsatilla alpina</i>	Alpine Pasque Flower	Widespread, locally very common. (sspp. <i>australpina</i> and <i>apiifolia</i>)
<i>Pulsatilla vernalis</i>	Spring Pasque Flower	In flower Gavia, Stelvio, and Albula.
<i>Clematis vitalba</i>	Traveller's-joy	Scattered records.
<i>Clematis recta</i>	Ground Clematis	Lake Idro, 2019.
<i>Clematis alpina</i>	Alpine Clematis	Brescian Prealps.
<i>Ranunculus tuberosus</i>	a buttercup	Val Viola.
<i>Ranunculus repens</i>	Creeping Buttercup	Below Vivione.
<i>Ranunculus acris</i>	Meadow Buttercup	Widespread.
The following species of the <i>montanus</i> complex were probably all present. Generally common and widespread.		
<i>Ranunculus carinthiacus</i>	a buttercup	
<i>Ranunculus montanus</i>	a buttercup	
<i>Ranunculus venetus</i>	a buttercup	
<i>Ranunculus villarsii</i>	a buttercup	
<i>Ranunculus breyninus</i>	a buttercup	
<i>Ranunculus thora</i>	Kidney-leaved Crowfoot	In flower on Arera (c.4), and Brescian Prealps (c.5). Not seen 2023 or 2024.
<i>Ranunculus alpestris</i>	Alpine Crowfoot	Stelvio and Switzerland.
<i>Ranunculus aconitifolius</i>	Aconite-leaved Buttercup	Brescian Prealps and Vivione. Not seen 2023 or 2024.
<i>Ranunculus platanifolius</i>	a buttercup	Brescian Prealps and Oga Bog.
<i>Ranunculus glacialis</i>	Glacier Crowfoot	Locally common in fine flower in Stelvio NP.
<i>Ranunculus kuepferi</i>	a buttercup	A few at one site in Stelvio NP.
<i>Ranunculus parnassifolius</i>	Parnassus-leaved Buttercup	In fruit in Stelvio National Park, 2023.
ssp. <i>heterocarpus</i>		
<i>Ranunculus</i> sp.		A small flowered aquatic species on the arrival day, 2018.
<i>Aquilegia atrata</i>	Dark Columbine	Scattered records, e.g. Brescian Prealps.
<i>Aquilegia einseleana</i>	a columbine	Bergamasche Orobienne Alps, in leaf, 2015.
<i>Thalictrum aquilegifolium</i>	Great Meadow-Rue	Brescian Prealps, Vivione, Stelvio.
<i>Thalictrum foetidum</i>	Foetid Meadow-Rue	Stelvio forest.
<i>Thalictrum minus</i>	Lesser Meadow-rue	Oga Bog.

Berberidaceae

<i>Berberis vulgaris</i>	Barberry	Sta. Caterina Valfurva and Borno.
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Papaveraceae

<i>Papaver rhoeas</i>	Corn Poppy	Lower altitude roadsides.
<i>Papaver croceum</i>	Iceland Poppy	Naturalised in Livigno.
<i>Papaver aurantiacum</i>	Alpine Poppy	Stelvio National Park.
<i>Chelidonium majus</i>	Greater Celandine	Roadsides.

Fumariaceae		
<i>Corydalis lutea</i>	Yellow Corydalis	Val di Scalve. Subendemic.
Ulmaceae		
<i>Ulmus laevis</i>	Large-leaved Elm	Venice
Moraceae		
<i>Ficus carica</i>	Fig	Lower roadsides.
Urticaceae		
<i>Urtica dioica</i>	Stinging Nettle	Scattered records.
<i>Urtica urens</i>	Small Nettle	Recorded 2017.
<i>Parietaria judaica</i>	Pellitory-of-the-wall	
Juglandaceae		
<i>Juglans regia</i>	Walnut	
Fagaceae		
<i>Fagus sylvatica</i>	Beech	Forming forests.
<i>Castanea sativa</i>	Sweet Chestnut	Brescian Prealps and Orobiegne Alps.
<i>Quercus robur</i>	Common Oak	Orobiegne Alps.
Betulaceae		
<i>Betula pendula</i>	Silver Birch	Scattered records.
<i>Alnus viridis</i>	Green Alder	Often forming low scrub on the treeline, but also on forest edges lower down. Locally dominant.
<i>Alnus glutinosa</i>	Alder	
<i>Alnus incana</i>	Grey Alder	Oga Bog.
<i>Ostrya carpinifolia</i>	Hop Hornbeam	Widespread.
<i>Corylus avellana</i>	Hazel	Scattered records.
Phytolaccaceae		
<i>Phytolacca americana</i>	Pokeberry	Lower roadsides.
Chenopodiaceae		
<i>Chenopodium bonus-henricus</i>	Good King Henry	Eutrophied areas.
<i>Chenopodium album</i>	Fat Hen	
Portulacaceae		
<i>Portulaca oleracea</i>	Common Purslane	
Caryophyllaceae		
<i>Arenaria biflora</i>	a sandwort	Gavia. Covered by snow in 2024!
<i>Arenaria ciliata</i>	Fringed Sandwort	Stelvio NP.
<i>Arenaria multicaulis</i>	a sandwort	Brescian Prealps, Croce Domini.
<i>Arenaria serpyllifolia</i>	Thyme-leaved Sandwort	Scattered records.
<i>Arenaria leptoclados</i>	Slender Sandwort	M.Delle Scale, 2019.
<i>Arenaria marschlinsii</i>	a sandwort	Stelvio NP 2015.
<i>Moehringia ciliata</i>	a sandwort	Orobiegne Alps on recce.

<i>Moehringia concarenae</i>	a sandwort	Apparently this in Stelvio National Park, but not known from Sondrio Province? Local endemic. Also a fine cushion north Lake Iseo (2019). Many in Stelvio 2023. Site not reached 2024.
<i>Minuartia recurva</i>	Sickle-leaved Sandwort	Switzerland.
<i>Minuartia grignensis</i>	a sandwort	Monte Arera, locally common. 2023. Endemic.
<i>Minuartia austriaca</i>	a sandwort	Monte Arera 2023.
<i>Minuartia verna</i> ssp. <i>verna</i>	Spring Sandwort	Scattered records, e.g. Gavia.
<i>Minuartia verna</i> ssp. <i>collina</i>		Cancano 2019. Not given for Sondrio Province in Flora Alpina.
<i>Minuartia sedoides</i>	Mossy Cyphel	Rhaetian Alps, e.g. Gavia.
<i>Stellaria nemorum</i>	Wood Stitchwort	Brescian Prealps.
<i>Stellaria media</i>	Common Chickweed	
<i>Stellaria graminea</i>	Lesser Stitchwort	Below Vivione.
<i>Cerastium cerastoides</i>	Starwort Mouse-ear	Gavia wet flushes. Snow only just gone from here this year, so not seen.
<i>Cerastium arvense</i>	Field Mouse-ear	Widespread in various subspecies.
<i>Cerastium alpinum</i>	Alpine Mouse-ear	
<i>Cerastium uniflorum</i>	a mouse-ear	Below Gavia.
<i>Cerastium latifolium</i>	a mouse-ear	Monte Arera and Stelvio NP, in leaf. 2023.
<i>Cerastium pedunculatum</i>	a mouse-ear	Higher altitudes on acidic rocks. 2017.
<i>Cerastium fontanum</i>	Common Mouse-ear	Alpine endemic.
<i>Cerastium glomeratum</i>	Sticky Mouse-ear	Brescian Prealps.
<i>Sagina procumbens</i>	Procumbent Pearlwort	Brescian Prealps.
<i>Sagina</i> sp.	a pearlwort	Pavement weed.
<i>Silene flos-cuculi</i>	Ragged Robin	Below Gavia.
<i>Silene nutans</i>	Nottingham Catchfly	Locally very common in Switzerland.
<i>Silene vulgaris</i>	Bladder Campion	Scattered records.
<i>Silene saxifraga</i>	a catchfly	Widespread.
<i>Silene acaulis</i>	Moss Campion	Forcola, 2019.
<i>Silene exscapa</i>	a moss campion	Gavia and Stelvio.
<i>Silene rupestris</i>	Rock Campion	On acidic substrates, Gavia.
<i>Silene pusilla</i>	a catchfly	Scattered records, e.g. Brescian Prealps, below Vivione and Gavia.
<i>Silene latifolia</i> ssp. <i>alba</i>	White Campion	Arera 2015.
<i>Silene dioica</i>	Red Campion	Brescian Prealps.
<i>Gypsophila repens</i>	Alpine Gypsophila	Widespread, locally very common.
<i>Saponaria ocymoides</i>	Rock Soapwort	Scattered records, locally common, e.g. Brescian Prealps.
<i>Saponaria officinalis</i>	Soapwort	Above Bormio, below Presolana.
<i>Petrorhagia saxifraga</i>	Tunic Flower	Lower roadsides.
<i>Dianthus carthusianorum</i>	Carthusian Pink	Scattered records, e.g. below Vivione.
<i>Dianthus seguieri</i>	Seguier's Pink	Near Oga.
<i>Dianthus hyssoifolius</i>	a pink	Brescian Prealps on recce.
<i>Dianthus sylvestris</i>	Wood Pink	Arera 2017.
<i>Dianthus superbus</i>	Fringed Pink	Stelvio NP.
		Vivione, from the vehicle.

Polygonaceae

<i>Polygonum aviculare</i>	Common Knotgrass	
<i>Polygonum bistorta</i>	Bistort	Locally very common, as at Livigno.
<i>Polygonum viviparum</i>	Alpine Bistort	Scattered records, locally common.
<i>Fallopia</i> sp.	a bindweed	Val de Scalve.
<i>Oxyria digyna</i>	Mountain Sorrel	Gavia and Stelvio NP.
<i>Rumex scutatus</i>	French Sorrel	Scattered records, e.g. Gavia and Brescian Prealps.
<i>Rumex alpestris</i>	Mountain Dock	Scattered records.
<i>Rumex acetosa</i>	Common Sorrel	Scattered records.
<i>Rumex alpinus</i>	Monk's Rhubarb	Eutrophied areas around buildings etc.
<i>Rumex crispus</i>	Curled Dock	Scattered records.
<i>Rumex obtusifolius</i>	Broad-leaved Dock	Scattered records.

Plumbaginaceae

<i>Armeria alpina</i>	Mountain Thrift	Gavia and Stelvio NP.
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Hypericaceae

<i>Hypericum montanum</i>	Pale St.John's-wort	Below Vivione.
<i>Hypericum tetrapterum</i>	Square-stalked St.John's-wort	Below Vivione, 2023.
<i>Hypericum maculatum</i>	Imperforate St. John's-wort	Brescian Prealps.
<i>Hypericum perforatum</i>	Common St John's-wort	Scattered records.

Malvaceae

<i>Malva alcea</i>	Hollyhock Mallow	Roadsides.
<i>Malva sylvestris</i>	Common Mallow	Scattered records.
<i>Malva neglecta</i>	Dwarf Mallow	Lago d'Iseo.
<i>Althaea officinalis</i>	Marsh-mallow	Venice, new in 2024.

Droseraceae

<i>Drosera rotundifolia</i>	Round-leaved Sundew	Oja Bog, in leaf.
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Cistaceae

<i>Helianthemum nummularium</i>	Common Rockrose	Scattered records, e.g. Brescian Prealps.
<i>Helianthemum alpestre</i>	Alpine Rockrose	Brescian Prealps and Stelvio.

Violaceae

<i>Viola thomasiana</i>	a viola	Val Viola, new in 2024.
<i>Viola rupestris</i>	Teesdale Violet	Switzerland, 2019.
<i>Viola riviniana</i>	Common Dog-violet	Val Viola.
<i>Viola palustris</i>	Marsh Violet	Gavia 2023.
<i>Viola biflora</i>	Yellow Wood Violet	Widespread and locally very common.
<i>Viola calcarata</i> ssp. <i>calcarata</i>	Spurred Violet	Stelvio and Switzerland.
<i>Viola dubyana</i>	a pansy	Monte Arera, many in fine flower. Endemic.# 2023.
<i>Viola tricolor</i>	Heartsease	Below Vivione.
<i>Viola arvensis</i>	Field Pansy	Below Vivione.

Salicaceae

<i>Salix alba</i>	White Willow	Lower altitudes.
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<i>Salix reticulata</i>	Net-leaved Willow	Limestone rocks at higher altitudes, e.g. Brescian Prealps, Gavia, Switzerland.
<i>Salix herbacea</i>	Least Willow	Gavia and Stelvio.
<i>Salix retusa</i>	Retuse-leaved Willow	Brescian Prealps and Gavia.
<i>Salix serpyllifolia</i>	Thyme-leaved Willow	Gavia, Stelvio, and Switzerland.
<i>Salix breviserrata</i>	a willow	Stelvio NP and Gavia.
<i>Salix glaucosericea</i>	Silky Willow	Below Gavia.
<i>Salix myrsinifolia</i>	Dark-leaved Willow	Val Viola and Brescian Prealps.
<i>Salix apennina</i>	Apennine Willow	Probably present too.
<i>Salix mielichhoferi</i>	a willow	Arera. 2023.
<i>Salix glabra</i>	Alpine Willow	This on Mt.Arera? 2023.
<i>Salix appendiculata</i>	Large-leaved Willow	Brescian Prealps.
<i>Salix cinerea</i>	Grey Willow	Scattered records.
<i>Salix caprea</i>	Goat Willow	Forest edge.
<i>Salix rosmarinifolia</i>	Rosemary-leaved Willow	Brescian Prealps 2017.
<i>Salix foetida</i>	Fishy Willow	
<i>Salix waldsteiniana</i>	a willow	Orobienne Alps and Brescian Prealps.
<i>Salix helvetica</i>	Swiss Willow	Rhaetian Alps.
<i>Salix elaeagnos</i>	a willow	Scattered records.
<i>Salix purpurea</i>	Purple Willow	Scattered records.
<i>Salix</i> spp.	willows	Others unidentified.
<i>Populus tremula</i>	Aspen	Scattered records.
<i>Populus nigra</i>	Black Poplar	Lower altitudes.
Brassicaceae		
<i>Sisymbrium strictissimum</i>	Perennial Rocket	Rhaetian Alps roadsides.
<i>Descurainia sophia</i>	Flixweed	Above Bormio 2017.
<i>Alliaria petiolata</i>	Garlic Mustard	Colere area on recce.
<i>Erysimum rhaeticum</i>	a treacle mustard	Arera, 2017.
<i>Erysimum virgatum</i>	a treacle mustard	Stelvio NP 2018.
<i>Hesperis matronalis</i> ssp. <i>nivea</i>	Snow-white Dame's Violet	Lower Arera, 2023.
<i>Barbarea vulgaris</i>	Common Winter-ress	Brescian Prealps etc.
<i>Rorippa palustris</i>	Marsh Yellow-ress	Arera pond, 2023.
<i>Cardamine heptaphylla</i>	Seven-leaflet Bittercress	In fruit, Brescian Prealps, on recce.
<i>Cardamine pentaphyllos</i>	Five-leaflet Bittercress	In fruit, Vivione, 2017.
<i>Cardamine asarifolia</i>	Asarum-leaved Bittercress	Brescian Prealps, numerous at one site.
<i>Cardamine amara</i>	Large Bittercress	Stelvio NP.
<i>Cardamine resedifolia</i>	Mignonette-leaved Bittercress	Brescian Prealps.
<i>Cardamine alpina</i>	a bittercress	Gavia and Sta.Caterina Valfurva.
<i>Cardamine impatiens</i>	Fine-leaved Bittercress	Near Borno, 2019.
<i>Cardaminopsis halleri</i> ssp. <i>halleri</i>		Brescian Prealps, 2019.
<i>Arabis turrita</i>	Tower Cress	In fruit.
<i>Arabis caerulea</i>	Blue Arabis	High in Stelvio NP, 1 plant in flower.
<i>Arabis bellidifolia</i>	a rockcress	Stelvio NP.
<i>Arabis subcoriacea</i>	a rockcress	Stelvio NP.
<i>Arabis alpina</i>	Alpine Rockcress	Widespread, e.g. Stelvio and Brescian Prealps.
<i>Fourraea alpina</i>		Arera, 2018.
<i>Turritis glabra</i>	Tower Mustard	Sta.Caterina Valfurva.

<i>Draba aizoides</i>	Yellow Whitlow Grass	Switzerland.
<i>Draba hoppeana</i>	a whitlow grass	Gavia.
<i>Draba siliquosa</i>	a whitlow grass	Gavia.
<i>Draba dubia</i>	a whitlow grass	Arera 2018.
<i>Draba tomentosa</i>	Woolly Draba	Stelvio 2017.
<i>Petrocallis pyrenaica</i>		Arera, one in flower 2019.
<i>Kernera saxatilis</i>	Kernera	In fruit Val di Scalve.
<i>Capsella bursa-pastoris</i>	Shepherd's-purse	Widespread.
<i>Pritzelago alpina</i>	Chamois Cress	Brescian Prealps and Gavia.
<i>Thlaspi rotundifolium</i>	Round-leaved Pennycress	In flower on Arera 2019.
<i>Aethionema saxatile</i>	Burnt Candytuft	Forcola 2019.
<i>Biscutella laevigata</i>	Buckler Mustard	Widespread and locally very common.
<i>Diplotaxis tenuifolia</i>	Perennial Wall Rocket	At the rest stop en route to Malpensa, 2017.
Resedaceae		
<i>Reseda lutea</i>	Yellow Mignonette	A few records.
Empetraceae		
<i>Empetrum nigrum</i> <i>ssp.hermaphroditum</i>	Mountain Crowberry	Livigno and Oga Bog.
Ericaceae		
<i>Erica carnea</i>	Winter-flowering Heath	Brescian Prealps, Gavia, Stelvio.
<i>Calluna vulgaris</i>	Heather or Ling	Scattered records, e.g. Vivione and Brescian Prealps.
<i>Rhododendron ferrugineum</i>	Alpenrose	Widespread on acidic soils, numerous in Brescian Prealps, and Vivione.
<i>Rhododendron hirsutum</i>	Hairy Alpenrose	Widespread on calcareous substrates, e.g. Brescian Prealps.
<i>Rhodothamnus chamaecistus</i>	Dwarf Alpenrose	Gone over at Monte Ferrante on recce.
<i>Loiseleuria procumbens</i>	Creeping Azalea	Locally very numerous in flower, Livigno, Switzerland, Gavia, Stelvio.
<i>Arctostaphylos uva-ursi</i>	Bearberry	Scattered records, e.g. Val Viola.
<i>Arctostaphylos alpina</i>	Alpine Bearberry	Switzerland.
<i>Andromeda polifolia</i>	Bog Rosemary	In fruit in Oga Bog.
<i>Vaccinium microcarpum</i>	Small Cranberry	Oja Bog, in flower. Not given for Sondrio province in Flora Alpina.
<i>Vaccinium vitis-idaea</i>	Cowberry	Widespread in flower.
<i>Vaccinium uliginosum</i>	Bog Whortleberry	Scattered on leached grassland.
<i>Vaccinium gaultherioides</i>	a whortleberry	Oga Bog, Brescian Prealps.
<i>Vaccinium myrtillus</i>	Bilberry	Forests.
Pyrolaceae		
<i>Pyrola minor</i>	Common Wintergreen	In flower Brescian Prealps also Gavia, above Bormio. 2023.
<i>Pyrola rotundifolia</i>	Round-leaved Wintergreen	Sta. Caterina Valfurva.
<i>Orthilia secunda</i>	Nodding Wintergreen	A few records, 2015.
Primulaceae		
<i>Primula elatior</i>	Oxlip	A few still in flower Brescian Prealps, and Day 5.

<i>Primula veris</i>	Cowslip	In fruit.
<i>Primula farinosa</i>	Bird's-eye Primrose	In flower Val Viola, Gavia, and Switzerland.
<i>Primula glutinosa</i>	a primrose	Locally in fine flower in Rhaetian Alps. Alpine endemic.
<i>Primula glaucescens</i>	a primrose	Locally in fine flower in Brescian Prealps.
<i>Primula minima</i>	Least Primrose	In fruit in the Rhaetian Alps on recce.
<i>Primula integrifolia</i>	Entire-leaved Primrose	In flower in Switzerland.
<i>Primula latifolia</i>	Viscid Primrose	Locally common in flower in Livigno area and Switzerland.
<i>Primula auricula</i>	Bear's-ear	Gone over on Monte Arera, 2023.
<i>Primula hirsuta</i>	a primula	In flower Stelvio and Livigno area.
<i>Primula daonensis</i>	a primrose	In fine flower Brescian Prealps and Gavia. Central Alps endemic.

The following hybrids were all probably present.

Primula x heerii = *Primula hirsuta* x *Primula integrifolia*

Primula x berninae = *Primula hirsuta* x *Primula latifolia*

Primula x murettiana = *Primula integrifolia* x *Primula latifolia*

<i>Primula glutinosa x daonensis</i>		Gavia 2023.
<i>Androsace obtusifolia</i>	a rock-jasmine	Switzerland and Stelvio.
<i>Androsace chamaejasme</i>	a rock-jasmine	Switzerland.
<i>Androsace hausmannii</i>	a rock-jasmine	c.5 plants in Bergamasche Orobie Alps, on the recce.
<i>Androsace alpina</i>	a rock-jasmine	Gavia Pass, pink flowers, 2017
<i>Soldanella pusilla</i>	Dwarf Snowbell	Widespread and locally common in flower, Brescian Prealps, Gavia (abundant), Stelvio.
<i>Soldanella alpina</i>	Alpine Snowbell	Switzerland.
<i>Cyclamen purpurascens</i>	Sowbread	A few records.
<i>Lysimachia vulgaris</i>	Yellow Loosestrife	Lower roadsides.
<i>Anagallis arvensis</i>	Scarlet Pimpernel	Lago d'Iseo.
Crassulaceae		
<i>Sempervivum wulfenii</i>	Wulfen's Houseleek	In bud Val Viola. Central and Eastern Alps endemic.
<i>Sempervivum arachnoideum</i>	Cobweb Houseleek	Scattered records, e.g. Sta. Caterina Valfurva.
<i>Sempervivum montanum</i>	Mountain Houseleek	In fine flower at several sites, e.g. Val Viola, Sta. Caterina Valfurva.
<i>Sempervivum tectorum</i>	Common Houseleek	Aprica.
<i>Sempervivum wulfenii x montanum</i>		Apparently this hybrid growing with the parents in Val Viola.
<i>Sedum telephium</i>	Orpine	
<i>Sedum montanum</i>	a stonecrop	Scattered, e.g. Brescian Prealps.
<i>Sedum acre</i>	Biting Stonecrop	Scattered records.
<i>Sedum alpestre</i>	a stonecrop	Gavia, Stelvio NP.
<i>Sedum sexangulare</i>	Tasteless Stonecrop	Arera 2023.
<i>Sedum album</i>	White Stonecrop	Widespread.
<i>Sedum dasyphyllum</i>	Thick-leaved Stonecrop	Stelvio.
<i>Sedum atratum</i>	Dark Stonecrop	Gavia and Stelvio. ssp. <i>atratum</i> and <i>carinthiacum</i> .
<i>Sedum annuum</i>	a stonecrop	Oga Fort and below Vivione, 2023.
<i>Rhodiola rosea</i>	Roseroot	Brescian Prealps and Gavia.

Saxifragaceae

<i>Saxifraga stellaris</i>	Starry Saxifrage	Brescian Prealps, Gavia, Stelvio NP, Val Viola.
<i>Saxifraga rotundifolia</i>	Round-leaved Saxifrage	Brescian Prealps.
<i>Saxifraga cuneifolia</i>	Spoon-leaved Saxifrage	Vivione 2018.
<i>Saxifraga caesia</i>	Blue Saxifrage	Stelvio in bud, Switzerland in leaf.
<i>Saxifraga vandellii</i>	Vandelli's Saxifrage	Stelvio NP, in flower. 2019. Central Alps endemic.
<i>Saxifraga oppositifolia</i>	Purple Saxifrage	Several in flower Stelvio Pass, and Gavia.
<i>Saxifraga hostii ssp.rhaetica</i>	a saxifrage	Fine in Brescian Prealps, and Bergamasche Orobienne Alps. Endemic.
<i>Saxifraga paniculata</i>	Livelong Saxifrage	Widespread and locally common.
<i>Saxifraga x subrhaetica</i>		The hybrid between <i>Saxifraga paniculata</i> and <i>Saxifraga hostii ssp.rhaetica</i> seen at Vivione.
<i>Saxifraga aspera</i>	Rough Saxifrage	Brescian Prealps 2017.
<i>Saxifraga bryoides</i>	Mossy Saxifrage	In fine flower at Gavia.
<i>Saxifraga aizoides</i>	Yellow Mountain Saxifrage	Widespread along streams, but also on dry slopes, e.g. Brescian Prealps and Gavia.
<i>Saxifraga exarata</i>	Musky Saxifrage	Switzerland, Stelvio, Gavia. [sspp. <i>exarata</i> and <i>moschata</i>]
<i>Saxifraga androsacea</i>	Scree Saxifrage	Gavia.
<i>Saxifraga seguieri</i>	a saxifrage	Gavia.
<i>Saxifraga muscoides</i>	a saxifrage	1 in fruit below Gavia, 2023. Alpine endemic.
<i>Saxifraga aphylla</i>	a saxifrage	Stelvio NP in leaf and bud 2019.
<i>Saxifraga adscendens</i>	a saxifrage	Lake Mot rocks, 2015.
<i>Parnassia palustris</i>	Grass of Parnassus	Sta. Caterina Valfurva, Gavia, Stelvio NP, Oga Bog and Val Viola, locally common.

Rosaceae

<i>Aruncus dioicus</i>	Goatsbeard Spiraea	Widespread and locally very common.
<i>Filipendula vulgaris</i>	Dropwort	Day 4 2019.
<i>Filipendula ulmaria</i>	Meadowsweet	Rhaetian Alps.
<i>Rubus fruticosus</i> agg.	Bramble	Scattered records.
<i>Rubus idaeus</i>	Raspberry	Forests.
<i>Rosa arvensis</i>	Field Rose	Scattered records.
<i>Rosa glauca</i>	Glaucous Dog Rose	Viola.
<i>Rosa pendulina</i>	Alpine Rose	Widespread, e.g. Brescian Prealps.
<i>Rosa montana</i>	Mountain Rose	Brescian Prealps.
<i>Rosa canina</i> s.s.	Dog Rose	Scattered records.
<i>Agrimonia eupatoria</i>	Agrimony	Scattered records. Not seen 2023 or 2024?
<i>Sanguisorba officinalis</i>	Great Burnet	Switzerland and Oga.
<i>Sanguisorba dodecandra</i>	a burnet	Monte Arera, one impressive patch. 2023. A very local endemic.
<i>Sanguisorba minor</i>	Salad Burnet	A few records.
<i>Dryas octopetala</i>	Mountain Avens	Widespread, and locally abundant.
<i>Geum reptans</i>	Creeping Avens	Stelvio NP 2019.
<i>Geum montanum</i>	Mountain Avens	Widespread at higher altitudes
<i>Geum rivale</i>	Water Avens	Sta. Caterina Valfurva.
<i>Geum urbanum</i>	Herb Bennet	Below Vivione.

<i>Potentilla palustris</i>	Marsh Cinquefoil	In leaf, Vivione, 2018.
<i>Potentilla argentea</i>	Hoary Cinquefoil	Recorded 2015.
<i>Potentilla grandiflora</i>	a cinquefoil	Val Viola.
<i>Potentilla brauneana</i>	a cinquefoil	Switzerland, in leaf.
<i>Potentilla crantzii</i>	Alpine Cinquefoil	Scattered records.
<i>Potentilla aurea</i>	Golden Cinquefoil	Widespread, e.g. Brescian Prealps.
<i>Potentilla erecta</i>	Tormentil	Widespread and common.
<i>Potentilla reptans</i>	Creeping Cinquefoil	Val di Scalve.
<i>Potentilla caulescens</i>	Lax Potentilla	In bud Val di Scalve and above Bormio.
<i>Potentilla nitida</i>	Pink Cinquefoil	Monte Ferrante on recce.
<i>Sibbaldia procumbens</i>	Sibbaldia	In flower Gavia, and Stelvio.
<i>Fragaria vesca</i>	Wild Strawberry	Scattered records.
<i>Alchemilla pentaphyllea</i>	a lady's-mantle	Locally very common in Rhaetian Alps.
<i>Alchemilla alpina</i>	Alpine Lady's-mantle	Brescian Prealps etc.
<i>Alchemilla conjuncta</i>	Silver Lady's-mantle	
<i>Alchemilla splendens</i>	a lady's-mantle	
<i>Alchemilla hybrida</i>	a lady's-mantle	
<i>Alchemilla xanthochlora</i>	a lady's-mantle	
<i>Alchemilla glabra</i>	a lady's-mantle	
<i>Alchemilla coriacea</i>	a lady's-mantle	
<i>Sorbus aucuparia</i>	Mountain Ash	Woods, widespread.
<i>Sorbus chamaemespilus</i>	Dwarf Medlar	Brescian Prealps.
<i>Sorbus aria</i>	Whitebeam	Below Gavia.
<i>Amelanchier ovalis</i>	Snowy Mespilus	Above Bormio, Val Viola.
<i>Cotoneaster integerrimus</i>	Wild Cotoneaster	Stelvio NP 2015.
<i>Cotoneaster tomentosus</i>	Brickberry Cotoneaster	Brescian Prealps.
<i>Crataegus monogyna</i>	Hawthorn	
<i>Prunus spinosa</i>	Blackthorn	
<i>Prunus avium</i>	Wild Cherry	
Fabaceae		
<i>Laburnum anagyroides</i>	Laburnum	Brescian Prealps, Orobiegne Alps.
<i>Laburnum alpinum</i>	Alpine Laburnum	Orobiegne Alps, etc.
<i>Cytisus nigricans</i>	Black Broom	West of Borno and Val di Scalve gorge.
<i>Cytisus scoparius</i>	Broom	Low on Arera 2019.
<i>Genista tinctoria</i>	Dyer's Greenweed	Orobiegne Alps and Brescian Prealps.
<i>Genista radiata</i>	Twiggy Broom	Arera 2019.
<i>Robinia pseudoacacia</i>	False Acacia	Lower roadsides.
<i>Astragalus hypoglottis</i> ssp. <i>gremlii</i>	Purple Milk-vetch	Stelvio woods.
<i>Astragalus penduliflorus</i>	Mountain Lentil	Vivione, 1 plant, and Val Viola 1 plant. 2023.
<i>Astragalus alpinus</i>	Alpine Milk-Vetch	Stelvio NP.
<i>Astragalus australis</i>	a milk-vetch	Stelvio woods.
<i>Astragalus glycyphyllos</i>	Wild Liquorice	Orobiegne Alps and Brescian Prealps, in leaf.
<i>Oxytropis lapponica</i>	a milk-vetch	Stelvio NP 2019.
<i>Oxytropis jacquinii</i>	Mountain Milk-Vetch	Brescian Prealps, Switzerland. 2023.
<i>Oxytropis campestris</i>	Yellow Milk-Vetch	Stelvio NP and Switzerland.
ssp. <i>campestris</i> and ssp. <i>tyroliensis</i>		
<i>Oxytropis fetida</i>	a milk-vetch	This species Stelvio NP. Not recorded for Sondrio province in Flora Alpina. 2023.
<i>Vicia cracca</i>	Tufted Vetch	Widespread.

<i>Vicia sepium</i>	Bush Vetch	Scattered records, e.g. below Vivione.
<i>Lathyrus pratensis</i>	Meadow Vetchling	Below Vivione.
<i>Lathyrus sylvestris</i>	Narrow-leaved Everlasting-pea	Sta. Caterina Valfurva.
<i>Ononis natrix</i>	Large Yellow Restharrow	Below Crocedomini.
<i>Ononis spinosa</i>	Spiny Restharrow	Above Bormio.
<i>Melilotus altissimus</i>	Tall Melilot	Scattered records.
<i>Melilotus albus</i>	White Melilot	Widespread.
<i>Medicago lupulina</i>	Black Medick	Widespread.
<i>Medicago sativa</i>	Lucerne	Brescian Prealps etc.
<i>Medicago falcata</i>	Sickle Medick	Above Bormio.
<i>Trifolium alpinum</i>	Alpine Clover	Widespread and common.
<i>Trifolium montanum</i>	Mountain Clover	Scattered records, e.g. Stelvio and Brescian Prealps.
<i>Trifolium repens</i>	White Clover	Common.
<i>Trifolium pallescens</i>	a clover	Scattered records.
<i>Trifolium thalii</i>	Thale Cress	Brescian Prealps.
<i>Trifolium hybridum</i>	Alsike Clover	Vivione.
<i>Trifolium badium</i>	Brown Clover	Gavia.
<i>Trifolium spadiceum</i>	Large Brown Clover	Val Viola.
<i>Trifolium pratense</i>	Red Clover	Common.
<i>Trifolium pratense ssp.nivale</i>		Below Gavia, locally common.
<i>Trifolium medium</i>	Zig-zag Clover	Arera 2023.
<i>Trifolium alpestre</i>	Alpine Trefoil	
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	Widespread in grassland.
<i>Lotus alpinus</i>	Alpine Bird's-foot-trefoil	Widespread above 2000m.
<i>Anthyllis vulneraria</i>	Kidney-vetch	Widespread, various subspecies seen.
<i>Coronilla vaginalis</i>	a scorpion-vetch	In flower near Borno.
<i>Securigera varia</i>	Crown-vetch	Widespread.
<i>Hippocrepis emerus</i>	Scorpion Sedge	In leaf Orobienne Alps.
<i>Hippocrepis comosa</i>	Horseshoe Vetch	Widespread.
<i>Hedysarum hedysaroides</i>	Alpine Sainfoin	
<i>ssp.hedysaroides</i>		Switzerland.
<i>ssp.exaltatum</i>		Brescian Prealps.
<i>Onobrychis montana</i>	Mountain Sainfoin	Abundant in Brescian Prealps, also Switzerland.
<i>Onobrychis arenaria</i>	Hungarian Sainfoin	
<i>ssp.arenaria</i>		
<i>Onobrychis viciifolia</i>	Common Sainfoin	Scattered records.
<i>Elaeagnaceae</i>		
<i>Hippophaë rhamnoides</i>	Sea-buckthorn	Cancano road 2019.
<i>Lythraceae</i>		
<i>Lythrum salicaria</i>	Purple Loosestrife	Lower roadsides.
<i>Thymelaeaceae</i>		
<i>Daphne mezereum</i>	Mezereon	In fruit in Brescian Prealps.
<i>Daphne cneorum</i>	Garland Flower	Below Gavia.
<i>Daphne striata</i>		Brescian Prealps.

Onagraceae

<i>Circaea lutetiana</i>	Enchanter's Nightshade	
<i>Oenothera biennis</i>	Common Evening Primrose	Lower roadsides.
<i>Oenothera glazioviana</i>	Large-flowered Evening Primrose	Lower roadsides.
<i>Epilobium angustifolium</i>	Rosebay Willowherb	Widespread.
<i>Epilobium hirsutum</i>	Greater Willowherb	Lower roadsides.
<i>Epilobium montanum</i>	Broad-leaved Willowherb	Scattered records, e.g. Brescian Prealps.
<i>Epilobium collinum</i>	a willowherb	
<i>Epilobium alpestre</i>	Whorled-leaved Willowherb	Brescian Prealps, not seen 2023 or 2024.
<i>Epilobium palustre</i>	Marsh Willowherb	Oga Bog.
<i>Epilobium anagallidifolium</i>	Pimpernel-leaved Willowherb	Sta. Caterina Valfurva.
<i>Epilobium alsinifolium</i>	Chickweed Willowherb	Rhaetian Alps.
<i>Epilobium</i> sp.	a willowherb	Boario Terme hotel car park!

Santalaceae

<i>Thesium divaricatum</i>	Branched Bastard Toadflax	Val di Scalve gorge, and west of Borno.
<i>Thesium alpinum</i>	Alpine Bastard Toadflax	Rhaetian Alps and Brescian Prealps.

Euphorbiaceae

<i>Euphorbia maculata</i>	Spotted Spurge	Venice and Boario Terme.
<i>Euphorbia prostrata</i>	Trailing Red Spurge	On the arrival day 2017.
<i>Euphorbia dulcis</i>	Sweet Spurge	Val di Scalve gorge.
<i>Euphorbia cyparissias</i>	Cypress Spurge	Above Bormio, Gavia.

Rhamnaceae

<i>Rhamnus pumila</i>	Dwarf Buckthorn	
<i>Frangula alnus</i>	Alder Buckthorn	

Linaceae

<i>Linum alpinum</i>	Mountain Flax	Arera 2023.
<i>Linum catharticum</i>	Fairy Flax	Scattered records, e.g. Brescian Prealps.

Polygalaceae

<i>Polygala chamaebuxus</i>	Shrubby Milkwort	Brescian Prealps.
<i>Polygala comosa</i>	a milkwort	Brescian Prealps.
<i>Polygala vulgaris</i>	Common Milkwort	Brescian Prealps etc.
<i>Polygala alpestris</i>	Mountain Milkwort	Brescian Prealps.
<i>Polygala amarella</i>	Dwarf Milkwort	Oga Bog, new in 2024.
<i>Polygala alpina</i>	Alpine Milkwort	Stelvio NP 2019.

Aceraceae

<i>Acer campestre</i>	Field Maple	
<i>Acer pseudoplatanus</i>	Sycamore	

Simaroubaceae

<i>Ailanthus altissima</i>	Tree of Heaven	
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Oxalidaceae

<i>Oxalis acetosella</i>	Wood Sorrel	In leaf Oga Bog.
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Geraniaceae

<i>Geranium sanguineum</i>	Bloody Cranesbill	Val di Scalve gorge.
<i>Geranium sylvaticum</i>	Wood Cranesbill	Widespread, locally very common.
<i>Geranium nodosum</i>	Knotted Cranesbill	Monte Arera, 2023.
<i>Geranium phaeum</i>	Dusky Cranesbill	Brescian Prealps.
<i>Geranium pyrenaicum</i>	Pyrenean Cranesbill	Scattered records.
<i>Geranium robertianum</i>	Herb Robert	Scattered records.
Balsaminaceae		
<i>Impatiens noli-tangere</i>	Touch-me-not	Orobienne Alps 2017.
<i>Impatiens parviflora</i>	Small Balsam	Val di Scalve.
<i>Impatiens glandulifera</i>	Himalayan Balsam	Val Camonica.
<i>Impatiens balfourii</i>	a balsam	Brescian Prealps 2017.
Araliaceae		
<i>Hedera helix</i>	Ivy	
Apiaceae		
<i>Astrantia major</i>	Great Masterwort	Brescian Prealps.
<i>Astrantia minor</i>	Lesser Masterwort	Vivione.
<i>Chaerophyllum hirsutum</i>	Hairy Chervil	Brescian Prealps.
<i>Chaerophyllum villarsii</i>	a chervil	Rather widespread, e.g. Brescian Prealps and below Vivione.
<i>Chaerophyllum temulum</i>	Rough Chervil	Rhaetian Alps 2015.
<i>Molopospermum peloponnesiacum</i>		Locally still in flower. Brescian Prealps and Vivione.
<i>Pimpinella major</i>	Great Burnet-saxifrage	Scattered records.
<i>Pimpinella saxifraga</i>	Burnet-saxifrage	Above Bormio.
<i>Aegopodium podagraria</i>	Ground-elder	Val di Scalve.
<i>Seseli libanotis</i>	Moon Carrot	Val Viola, below Vivione, Sta. Caterina Valfurva.
<i>ssp.daucifolium</i>		Scattered records, e.g. Brescian Prealps.
<i>Seseli annuum</i>		Stelvio NP.
<i>Athamanta cretensis</i>	Candy Carrot	Brescian Prealps and Viola.
<i>Bupleurum stellatum</i>	a thorrow-wax	High on Arera, 2023.
<i>Bupleurum petraeum</i>	a thorrow-wax	Brescian Prealps 2023.
<i>Bupleurum ranunculoides</i>	a thorrow-wax	
<i>ssp.caricinum</i>		
<i>Bupleurum falcatum</i> ssp. <i>cernuum</i>	Sickle-leaved Hare's-ear	Below Vivione.
<i>Carum carvi</i>	Caraway	Brescian Prealps.
<i>Ligusticum mutellinoides</i>	Unbranched Lovage	Switzerland.
<i>Ligusticum mutellina</i>	Alpine Lovage	Widespread, e.g. Brescian Prealps.
<i>Angelica sylvestris</i>	Wild Angelica	In leaf.
<i>Peucedanum venetum</i>	a masterwort	Stelvio NP 2019.
<i>Peucedanum austriacum</i>		Near Borno.
<i>ssp.rablense</i>		
<i>Peucedanum ostruthium</i>	Masterwort	Scattered in flower.
<i>Peucedanum verticillare</i>	a masterwort	Brescian Prealps.
<i>Pastinaca sativa</i>	Wild Parsnip	Scattered roadside records.
<i>Heracleum sphondylium</i>	Hogweed	Widespread.
<i>Laserpitium siler</i>	a sermountain	Vivione, Stelvio NP, Brescian Prealps.
<i>Laserpitium latifolium</i>	Broad-leaved Sermountain	Brescian Prealps.
<i>Laserpitium gaudinii</i>	a sermountain	Val Viola.

<i>Laserpitium peucedanoides</i>		West of Borno.
<i>Laserpitium nitidum</i>	a sermountain	
<i>Laserpitium halleri</i>	a sermountain	Below Vivione.
<i>Torilis japonica</i>	Upright Hedge-parsley	Brescian Prealps.
<i>Daucus carota</i>	Wild Carrot	Lower Arera, 2023.
Gentianaceae		
<i>Gentiana lutea</i>	Yellow Gentian	In leaf at Cancano 2019.
<i>Gentiana punctata</i>	Spotted Gentian	Widespread and locally common, e.g. Brescian Prealps, Gavia, Livigno (in leaf).
<i>Gentiana asclepiadea</i>	Willow Gentian	In leaf, Brescian Prealps.
<i>Gentiana cruciata</i>	Cross Gentian	In leaf on Arera 2015.
<i>Gentiana clusii</i>	Clusius's Gentian	Gavia and Stelvio.
<i>Gentiana acaulis</i>	Trumpet Gentian	Brescian Prealps, Gavia, Stelvio, Switzerland.
<i>Gentiana verna</i>	Spring Gentian	Brescian Prealps.
<i>Gentiana brachyphylla</i>	a gentian	Gavia, Stelvio, Switzerland.
<i>Gentiana orbicularis</i>	a gentian	Stelvio NP, 2023.
<i>Gentiana bavarica</i>	Bavarian Gentian	Rhaetian Alps, 1 in Brescian Prealps.
<i>Gentiana nivalis</i>	Snow Gentian	Stelvio and Val Viola.
<i>Gentiana utriculosa</i>	Bladder Gentian	In fine flower on Arera, 2023.
<i>Gentiana tenella</i>	a gentian	Below Gavia.
<i>Gentiana campestris</i>	Field Gentian	Oga Bog.
Aslepiadaceae		
<i>Vincetoxicum hirundinaria</i>	Swallow-wort	Scattered records.
Solanaceae		
<i>Solanum dulcamara</i>	Bittersweet	Val di Scalve.
Convolvulaceae		
<i>Cuscuta europaea</i>	Greater Dodder	Day 3 on recce.
<i>Cuscuta epithymum</i>	Dodder	On <i>Thymus</i> at Cancano, 2019.
<i>Calystegia sepium</i>	Hedge Bindweed	Lower roadsides.
<i>Convolvulus arvensis</i>	Field Bindweed	Lago d'Iseo.
Menyanthaceae		
<i>Menyanthes trifoliata</i>	Bog-bean	In leaf at Oga Bog.
Polemoniaceae		
<i>Polemonium caeruleum</i>	Jacob's-ladder	Stelvio National Park. Not in flower 2024.
Boraginaceae		
<i>Echium vulgare</i>	Viper's Bugloss	Locally common on roadsides.
<i>Myosotis arvensis</i>	Field Forget-me-not	Scattered records.
<i>Myosotis discolor</i>	Changing Forget-me-not	Day 4, 2017.
<i>Myosotis sylvatica</i>	Wood Forget-me-not	Arera and Day 6, 2023.
<i>Myosotis alpestris</i>	Alpine Wood Forget-me-not	Widespread and locally numerous at higher altitudes.
<i>Myosotis scorpioides</i>	Water Forget-me-not	Brescian Prealps on recce.
<i>Pulmonaria australis</i>	a lungwort	Sta.Caterina Valfurva, new in 2024

Lamiaceae

<i>Ajuga pyramidalis</i>	Pyramidal Bugle	Scattered records, e.g. Viola, Brescian Prealps.
<i>Teucrium chamaedrys</i>	Wall Germander	Near Borno, in leaf.
<i>Teucrium montanum</i>	Mountain Germander	Val di Scalve gorge and above Bormio.
<i>Galeopsis ladanum</i>	Broad-leaved Hemp-nettle	In flower below Vivione.
<i>Galeopsis pubescens</i>	Downy Hemp-nettle	Day 2 2017.
<i>Lamium maculatum</i>	Spotted Dead-nettled	Scattered records, e.g. below Vivione.
<i>Lamium album</i>	White Dead-nettle	
<i>Lamium galeobdolon</i>	Yellow Archangel	Scattered records.
<i>Stachys alopecuroides</i>	Yellow Betony	Brescian Prealps.
<i>Stachys pradica</i>	a betony	Below Vivione 2023.
<i>Stachys officinalis</i>	Betony	
<i>Stachys alpina</i>	Limestone Woundwort	Below Vivione.
<i>Stachys sylvatica</i>	Hedge Woundwort	Recorded.
<i>Stachys recta</i>	Yellow Woundwort	Near Borno.
<i>Prunella grandiflora</i>	Large Self-heal	Stelvio NP.
<i>Prunella vulgaris</i>	Self-heal	Scattered records.
<i>Acinos alpinus</i>	Alpine Calamint	Scattered records, locally common.
<i>Acinos arvensis</i>	Basil Thyme	Stelvio NP.
<i>Calamintha grandiflora</i>	Greater Calamint	Brescian Prealps on recce.
<i>Clinopodium vulgare</i>	Wild Basil	Scattered records.
<i>Origanum vulgare</i>	Marjoram	Val di Scalve.
<i>Thymus praecox</i>	Hairy Thyme	Scattered records.
<i>Thymus pulegioides</i>	Large-flowered Thyme	Scattered records.
<i>Mentha longifolia</i>	Horse Mint	Scattered records.
<i>Horminum pyrenaicum</i>	Dragonmouth	Brescian Prealps.
<i>Salvia glutinosa</i>	Sticky Sage	In leaf.
<i>Salvia pratensis</i>	Meadow Clary	Locally very common.

Plantaginaceae

<i>Plantago major</i>	Great Plantain	Widespread.
<i>Plantago maritima</i> ssp. <i>serpentina</i>	a plantain	Viola and Vivione.
<i>Plantago alpina</i>	Alpine Plantain	Switzerland.
<i>Plantago media</i>	Hoary Plantain	Widespread.
<i>Plantago atrata</i>	Mountain Plantain	Switzerland.
<i>Plantago lanceolata</i>	Ribwort Plantain	Scattered records.

Buddlejaceae

<i>Buddleja davidii</i>	Buddleia	Widely naturalised.
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Oleaceae

<i>Fraxinus excelsior</i>	Ash	
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Scrophulariaceae

<i>Verbascum thapsus</i>	Aaron's-rod	Widespread.
<i>Verbascum pulverulentum</i>	Hoary Mullein	Lower roadsides.
<i>Verbascum chaixii</i>	a mullein	
<i>Verbascum nigrum</i>	Dark Mullein	
<i>Verbascum alpinum</i>	a mullein	Brescian Prealps and Orobienne Alps.
<i>Scrophularia nodosa</i>	Common Figwort	Scattered records.
<i>Scrophularia canina</i>	French Figwort	Brescian Prealps.

<i>Scrophularia juratensis</i>	a figwort	Arera and Brescian Prealps 2023.
<i>Chaenorhinum minus</i>	Small Toadflax	Oga Fort 2019.
<i>Linaria tonzigii</i>	Tonzig's Toadflax	Several plants of this rare very local endemic in fine flower in the Bergamasche Orobiegne Alps. 2023.
<i>Linaria vulgaris</i>	Common Toadflax	Brescian Prealps lower roadsides.
<i>Linaria angustissima</i>	a toadflax	Day 7 roadsides.
<i>Linaria alpina</i>	Alpine Toadflax	Gavia and Brescian Prealps.
<i>Cymbalaria muralis</i>	Ivy-leaved Toadflax	Walls.
<i>Digitalis grandiflora</i>	Large Yellow Foxglove	Brescian Prealps.
<i>Digitalis lutea</i>	Small Yellow Foxglove	Brescian Prealps.
<i>Veronica bellidioides</i>	Violet Speedwell	Gavia.
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell	Scattered records. ssp. <i>serpyllifolia</i> and <i>humifusa</i> .
<i>Veronica alpina</i>	Alpine Speedwell	Stelvio NP 2023.
<i>Veronica fruticans</i>	Rock Speedwell	Locally common in Rhaetian Alps.
<i>Veronica fruticulosa</i>	a speedwell	Below Vivione.
<i>Veronica urticifolia</i>	Nettle-leaved Speedwell	Woods, below Vivione, and Brescian Prealps.
<i>Veronica aphylla</i>	Leafless-stemmed Speedwell	Brescia Prealps, Stelvio, and Switzerland.
<i>Veronica officinalis</i>	Heath Speedwell	Scattered records, e.g. Brescian Prealps and below Vivione.
<i>Veronica chamaedrys</i>	Bird's-eye Speedwell	Scattered records.
<i>Veronica beccabunga</i>	Brooklime	Below Vivione.
<i>Veronica anagallis-aquatica</i>	Blue Water-speedwell	Lago d'Iseo.
<i>Veronica persica</i>	Common Field Speedwell	
<i>Pseudolysimachion spicatum</i>	Spiked Speedwell	Orobiegne Alps 2023.
<i>Melampyrum velebicum</i>	a cow-wheat	
<i>Melampyrum sylvaticum</i>	Wood Cow-wheat	Forests, Vivione, Livigno.
<i>Melampyrum pratense</i>	Common Cow-wheat	Vivione 2023.
<i>Euphrasia rostkoviana</i>	an eyebright	Sta. Caterina Valfurva and Val Viola.
<i>ssp.montana</i>		
<i>Euphrasia picta ssp.arguta</i>	an eyebright	Brescian Prealps 2017.
<i>Euphrasia alpina</i>	Alpine Eyebright	Brescian Prealps 2015.
<i>Euphrasia minima</i>	an eyebright	Sta. Caterina Valfurva, yellow flowered form.
<i>Bartsia alpina</i>	Alpine Bartsia	Widespread in boggy flushes.
<i>Pedicularis recutita</i>	a lousewort	Several at one site in Brescian Prealps, and Stelvio.
<i>Pedicularis verticillata</i>	Verticillate Lousewort	Scattered records, e.g. Brescian Prealps.
<i>Pedicularis tuberosa</i>	a lousewort	Val Viola.
<i>Pedicularis elongata</i>	a lousewort	Brescian Prealps 2015
<i>Pedicularis ascendens</i>	a lousewort	Brescian Prealps and Rhaetian Alps.
<i>Pedicularis rostratospicata</i>	a lousewort	Forcola 2019.
<i>ssp.helvetica</i>		
<i>Pedicularis rostratocapitata</i>	a lousewort	Gavia.
<i>Pedicularis kernerii</i>	a lousewort	Brescian Prealps 2023.
<i>Pedicularis gyroflexa</i>	a lousewort	Arera 2023.
<i>Pedicularis ascendens x gyroflexa</i>		1 of this probable hybrid on Mt.Arera, 2017.
<i>Rhinanthus minor</i>	Yellow Rattle	Scattered, e.g. Sta. Caterina Valfurva.
<i>Rhinanthus antiquus</i>	a yellow rattle	
<i>Rhinanthus glacialis</i>	Aristate Yellow-rattle	Scattered, e.g. Sta. Caterina Valfurva.
<i>Rhinanthus songeonii</i>	a yellow rattle	

<i>Rhinanthus alectorolophus</i>	Greater Yellow-rattle	Scattered, e.g. Brescian Prealps, Santa Caterina Valfurva.
Globulariaceae		
<i>Globularia cordifolia</i>	Matted Globularia	Scattered records, e.g. Brescian Prealps, locally numerous.
<i>Globularia nudicaulis</i>	Leafless-stemmed Globularia	Brescian Prealps, over.
Orobanchaceae		
<i>Orobanche alba</i>	Thyme Broomrape	Arera 2023.
<i>Orobanche reticulata</i>	Thistle Broomrape	Forcola 2019.
<i>Orobanche caryophyllacea</i>	Bedstraw Broomrape	Stelvio NP 2019.
<i>Orobanche rapum-genistae</i> <i>ssp.rapum-genistae</i>	Greater Broomrape	Lower Arera 2019.
Lentibulariaceae		
<i>Pinguicula alpina</i>	Alpine Butterwort	Switzerland and Brescian Prealps.
<i>Pinguicula leptoceras</i>	a butterwort	Brescian Prealps, locally common.
<i>Pinguicula vulgaris</i>	Common Butterwort	Val Viola and Brescian Prealps, rosettes.
Campanulaceae		
<i>Campanula rainieri</i>	Rainer's Bellflower	One plant in fine flower in the Bergamasche Orobienne Alps on recce.
<i>Campanula patula ssp.costae</i>	Spreading Bellflower	Presumably this subspecies seen, Vivione, 2015.
<i>Campanula rapuncululus</i> <i>Campanula barbata</i>	Rampion Bellflower Bearded Bellflower	Lago d'Iseo, new in 2024. Val Viola, Brescian Prealps, Sta. Caterina Valfurva, Switzerland.
<i>Campanula glomerata</i> <i>ssp.glomerata</i>	Clustered Bellflower	Sta.Caterina 2018.
<i>Campanula spicata</i> <i>Campanula thyrsoides</i> <i>ssp.thyrsoides</i>	Spiked Bellflower a bellflower	Brescian Prealps. 1 fine spike in Switzerland, 2017.
<i>Campanula trachelium</i> <i>Campanula rapunculoides</i>	Nettle-leaved Bellflower Creeping Bellflower	Scattered records. Scattered records.
<i>Campanula carnica ssp.puberula</i> <i>Campanula cochlearifolia</i>	a bellflower Fairy's Thimble	Val di Scalve. Below Vivione.
<i>Campanula scheuchzeri</i> <i>Campanula rotundifolia</i>	a bellflower Harebell	Scattered records. Scattered records.
<i>Phyteuma spicatum</i> <i>Phyteuma ovatum</i>	Spiked Rampion Dark Rampion	Vivione 2015. Brescian Prealps.
<i>Phyteuma betonicifolium</i> <i>Phyteuma orbiculare</i>	Betony-leaved Rampion Round-headed Rampion	Brescian Prealps, numerous in Val Viola. Locally very common.
<i>Phyteuma sieberi</i> <i>Phyteuma scheuchzeri</i> <i>ssp.scheuchzeri</i> <i>ssp.columnae</i>	a rampion Oxford Rampion	Mt.Arera 2018. Mt.Arera 2023. Val di Scalve.
<i>Phyteuma hemisphaericum</i> <i>Phyteuma hedraianthifolium</i> <i>Phyteuma humile</i>	Globe-headed Rampion a rampion a rampion	Gavia. Brescian Prealps. A Central Alps endemic
<i>Phyteuma globulariifolium</i>	Rosette-leaved Rampion	Cancano 2019.

Rubiaceae

<i>Asperula aristata</i>	a squinancywort	Brescian Prealps.
<i>Asperula cynanchica</i>	Squinancywort	Scattered records, e.g. Brescian Prealps.
<i>Galium verum</i>	Lady's Bedstraw	Scattered records.
<i>Galium mollugo</i>	Hedge Bedstraw	Locally common.
<i>Galium album</i>	Upright Bedstraw	Scattered records.
<i>Galium montis-arerae</i>	Monte Arera Bedstraw	Fine in Bergamasche Orobieenne Alps, where endemic. 2023.
<i>Galium laevigatum</i>	a bedstraw	Below Vivione, and Borno.
<i>Galium rubrum</i>	a bedstraw	Day 3, 2023.
<i>Galium pumilum</i>	Slender Bedstraw	Brescian Prealps and Rhaetian Alps.
<i>Galium anisophyllum</i>	a bedstraw	Gavia and Val Viola.
<i>Galium baldense</i>	Monte Baldo Bedstraw	Monte Ferrante on recce. Central Alps endemic.
<i>Cruciata laevipes</i>	Crosswort	Below Vivione.

Caprifoliaceae

<i>Lonicera caerulea</i>	Blue-berried Honeysuckle	Above Livigno.
<i>Lonicera xylosteum</i>	Fly Honeysuckle	Brescian Prealps 2017.
<i>Lonicera japonica</i>	Japanese Honeysuckle	Naturalised in lower Val Camonica.
<i>Sambucus ebulus</i>	Dwarf Elder	Roadsides lower down.
<i>Sambucus nigra</i>	Common Elder	Scrubby verges and margins.
<i>Sambucus racemosa</i>	Red-berried Elder	Val Viola and Gavia.

Valerianaceae

<i>Valeriana officinalis</i>	Common Valerian	Forest margins and verges.
<i>Valeriana tripteris</i>	Three-leaved Valerian	Brescian Prealps, Vivione, Livigno.
<i>Valeriana montana</i>	a valerian	Brescian Prealps and Stelvio.
<i>Valeriana saxatilis</i>	Rock Valerian	Arera and Stelvio, 2023.
<i>Valeriana supina</i>	a valerian	One patch at Forcola, 2019.
<i>Centranthus ruber</i>	Red Valerian	Lower roadsides.

Dipsacaceae

<i>Dipsacus fullonum</i>	Teasel	Lower roadsides.
<i>Knautia drymeia</i>	a scabious	Brescian Prealps.
<i>Knautia longifolia</i>	a scabious	Scattered records.
<i>Knautia</i> spp.	scabious spp.	Others probably present.
<i>Scabiosa triandra</i>	a scabious	Scattered records.

Asteraceae

<i>Eupatorium cannabinum</i>	Hemp-agrimony	Lago d'Iseo.
<i>Solidago virgaurea</i>	Goldrenrod	Brescian Prealps, Val Viola.
<i>Solidago canadensis</i>	Canadian Goldenrod	Lower roadsides.
<i>Bellis perennis</i>	Daisy	
<i>Aster squamatus</i>	an aster	Lower roadsides.
<i>Aster alpinus</i>	Alpine Aster	Scattered higher altitude records, e.g. Stelvio and Gavia.
<i>Aster bellidiastrum</i>	False Aster	Brescian Prealps, etc., locally very common.
<i>Erigeron annuus</i>	Annual Fleabane	Widespread and very common.

<i>Erigeron acer</i>	Blue Fleabane	Gavia.
<i>Erigeron atticus</i>	a fleabane	Day 7, 2023
<i>Erigeron alpinus</i>	Alpine Fleabane	Gavia and Stelvio.
<i>Erigeron neglectus</i>	a fleabane	Gavia and Stelvio 2023.
<i>Erigeron glabratus</i>	Variable Fleabane	Livigno.
<i>Erigeron uniflorus</i>	Arctic Fleabane	This species at Foscagno, 2023?
<i>Gnaphalium supinum</i>	Dwarf Cudweed	Gavia and Stelvio NP. Not seen 2024.
<i>Antennaria dioica</i>	Mountain Everlasting	Brescian Prealps and Rhaetian Alps.
<i>Antennaria carpatica</i>	Carpathian Catsfoot	Rhaetian Alps.
<i>Leontopodium alpinum</i>	Edelweiss	Several on Arera, and Gavia, 2023.
<i>Bupthalmum salicifolium</i>	Yellow Ox-eye	Scattered records, e.g. above Bormio.
<i>Telekia speciosissima</i>	a yellow oxeye	Val di Scalve, several. Endemic.
<i>Galinsoga ciliata</i>	Shaggy Soldier	Pavement weed in villages.
<i>Achillea erba-rotta</i> ssp. <i>moschata</i>	a milfoil	Val Viola, Stelvio NP, Gavia. Alpine endemic.
<i>Achillea atrata</i>	Dark-stemmed Sneezewort	Stelvio NP.
<i>Achillea clavennae</i>	Silvery Milfoil	Brescian Prealps.
<i>Achillea distans</i>		Oga Bog.
<i>Achillea stricta</i>		
<i>Achillea millefolium</i>	Yarrow	Widespread.
<i>Achillea roseoalba</i>		Val Viola.
<i>Achillea collina</i>		Scattered records.
<i>Matricaria discoidea</i>	Pineapple-weed	Oga.
<i>Tanacetum corymbosum</i>	a tansy	Brescian Prealps and west of Borno.
<i>Leucanthemopsis alpina</i>	Alpine Moon Daisy	Widespread and locally very common, e.g. below
		Gavia.
<i>Leucanthemum vulgare</i>	Ox-eye Daisy	Widespread.
<i>Artemisia vulgaris</i>	Mugwort	In leaf.
<i>Artemisia absinthium</i>	Wormwood	In leaf.
<i>Artemisia umbelliformis</i>		Stelvio NP 2019.
<i>Tussilago farfara</i>	Coltsfoot	Still in flower Stevio NP and Brescian Prealps.
<i>Petasites albus</i>	White Butterbur	In leaf.
<i>Petasites hybridus</i>	Butterbur	In leaf.
<i>Petasites paradoxus</i>	Alpine Butterbur	In leaf.
<i>Homogyne alpina</i>	Alpine Coltsfoot	Brescian Prealps and Gavia.
<i>Adenostyles alliariae</i>	Adenostyles	Brescian Prealps.
<i>Adenostyles glabra</i>		Brescian Prealps. = <i>A.alpina</i>
<i>Arnica montana</i>	Arnica	Val Viola.
<i>Doronicum columnnae</i>	Heart-leaved Leopard's-bane	Arera, 2023.
<i>Doronicum clusii</i>	a leopard's-bane	Switzerland and Gavia.
<i>Senecio incanus</i> ssp. <i>carniolicus</i>	Grey Alpine Groundsel	In leaf Gavia.
<i>Senecio inaequidens</i>		Naturalised Boario Terme. A native of South Africa.
<i>Senecio germanicus</i> ssp. <i>glabratus</i>	a ragwort	Sta.Caterina Valfurva and Oga.
<i>Senecio hercynicus</i>		In bud at Oga Bog.
<i>Senecio ovatus</i>	Wood Ragwort	Below Sta.Caterina Valfurva.
<i>Senecio cacalister</i>	a ragwort	
<i>Senecio doronicum</i>	Chamois Ragwort	Livigno.
<i>Senecio alpinus</i>	Alpine Ragwort	Brescian Prealps, in leaf. = <i>Senecio cordatus</i>
<i>Senecio rupestris</i>	Rock (Oxford) Ragwort	Scattered records. = <i>Senecio squalidus</i>
<i>Senecio abrotanifolius</i>	a ragwort	In flower Val Viola, 2023.

<i>Tephrosieris tenuifolia</i>		Several, Brescian Prealps. Also Val Viola.
<i>Carlina acaulis</i>	Stemless Thistle	Previous years fruiting heads. Not confirmed for Brescia in Flora Alpina.
<i>Arctium lappa</i>	Greater Burdock	
<i>Arctium minus</i>	Lesser Burdock	
<i>Carduus defloratus</i>	Alpine Thistle	Widespread. More than one subspecies present.
<i>Cirsium eriophorum</i>	Woolly-headed Thistle	In bud Stelvio NP 2019.
<i>Cirsium montanum</i>	a thistle	Widespread and locally very common.
<i>Cirsium erisithales</i>	Yellow Melancholy Thistle	Widespread and numerous.
<i>Cirsium spinosissimum</i>	Spiniest Thistle	Widespread and locally very common.
<i>Cirsium helenoides</i>	Melancholy Thistle	Val Viola and Sta. Caterina Valfurva.
<i>Cirsium palustre</i>	Marsh Thistle	Brescian Prealps.
<i>Cirsium arvense</i>	Creeping Thistle	Scattered records.
<i>Stemmacantha rhapontica</i>		Just in flower in Brescian Prealps.
<i>Centaurea scabiosa</i>	Greater Knapweed	Above Bormio, and Switzerland.
<i>Centaurea nigrescens</i>	a knapweed	Widespread.
<i>Centaurea pseudophrygia</i>	a knapweed	Brescian Prealps.
<i>Centaurea nervosa</i>	Plume Knapweed	Val Viola.
<i>Centaurea rhaetica</i>	Rhaetian Knapweed	Brescian Prealps, not in flower 2024.
<i>Centaurea montana</i>	Perennial Cornflower	Brescian Prealps.
<i>Cichorium intybus</i>	Chicory	Verges lower down.
<i>Aposeris foetida</i>	Aposeris	Brescian Prealps, on open slopes.
<i>Hypochoeris uniflora</i>	Giant Cat's-ear	Brescian Prealps and Val Viola.
<i>Hypochoeris glabra</i>	Smooth Cat's-ear	Recorded.
<i>Hypochoeris radicata</i>	Cat's-ear	Scattered records.
<i>Leontodon helveticus</i>	a hawkbit	Widespread and locally numerous.
<i>Leontodon hispidus</i>	Rough Hawkbit	Scattered records.
<i>Leontodon crispus</i>	a hawkbit	Stelvio NP and Brescian Prealps, locally common.
<i>Leontodon incanus ssp.tenuiflorus</i>	a hawkbit	Stelvio NP, locally common.
<i>Picris echiooides</i>	Bristly Oxtongue	Venice.
<i>Picris hieracioides</i>	Hawkweed Oxtongue	
<i>Scorzonera rosea</i>	a viper's grass	Brescian Prealps, in fine flower at a new site the species. Also seen below Vivione.
<i>Tragopogon pratensis</i>	Goatsbeard	Val Viola etc.
<i>Sonchus asper</i>	Prickly Sow-thistle	
<i>Sonchus oleraceus</i>	Smooth Sow-thistle	
<i>Lactuca serriola</i>	Prickly Lettuce	Lower altitudes.
<i>Lactuca perennis</i>	Blue Lettuce	Day 7, from the vehicle.
<i>Cicerbita alpina</i>	Alpine Sow-thistle	Below Vivione.
<i>Prenanthes purpurea</i>	Purple Lettuce	In bud Vivione.
<i>Mycelis muralis</i>	Wall Lettuce	Scattered records.
<i>Taraxacum schroeterianum</i>		This species at Gavia? 2018.
<i>Taraxacum palustre</i>	Marsh Dandelion	
<i>Taraxacum alpinum</i>		
<i>Taraxacum officinale</i>	Dandelion	
<i>Taraxacum spp.</i>	dandelions	
<i>Lapsana communis</i>	Nipplewort	
<i>Crepis paludosa</i>	Marsh Hawksbeard	Val Viola and Oga Bog.
<i>Crepis pygmaea</i>	a hawksbeard	Stelvio NP 2023.

<i>Crepis kernerii</i>	a hawksbeard	Stelvio NP 2023.
<i>Crepis aurea</i>	Golden Hawksbeard	Widespread and locally very common.
<i>Crepis alpestris</i>	a hawksbeard	Arera 2019.
<i>Hieracium staticifolium</i>	a hawkweed	Below Vivione.
<i>Hieracium hoppeanum</i>	a hawkweed	Recorded.
<i>Hieracium pilosella</i>	Mouse-ear Hawkweed	Scattered records, e.g. Brescian Prealps, Viola and Stelvio NP.
<i>Hieracium lactucella</i>	a hawkweed	Brescian Prealps and Viola.
<i>Hieracium angustifolium</i>	a hawkweed	
<i>Hieracium piloselloides</i>	a hawkweed	
<i>Hieracium aurantiacum</i>	Fox-and-cubs	Numerous in Switzerland.
<i>Hieracium bifidum</i>	a hawkweed	Scattered records, locally common.
<i>Hieracium caesium</i>	a hawkweed	Apparently this at Oga Fort, 2019.
<i>Hieracium villosum</i>	a hawkweed	Brescian Prealps.
<i>Hieracium pilosum</i>	a hawkweed	Arera 2023.
<i>Hieracium piliferum</i>	a hawkweed	Brescian Prealps and Gavia.
<i>Hieracium intybaceum</i>	a hawkweed	Val Viola.
<i>Hieracium glaucum</i>	a hawkweed	Stelvio NP.

D. ANGIOSPERMS - MONOCOTYLEDONES

Juncaginaceae

Triglochin palustris Marsh Arrow-grass Oga Bog.

Potamogetonaceae

Potamogeton alpinus Red Pondweed Cancano 2019.

Juncaceae

Juncus jacquinii a rush Acidic soils at higher altitudes, not yet in flower this year.

Juncus filiformis Thread Rush Val Viola.

Juncus effusus Soft Rush Below Vivione.

Juncus conglomeratus Compact Rush Brescian Prealps.

Juncus trifidus Three-leaved Rush Acidic soils, Brescian Prealps and Rhaetian Alps.

Juncus monanthus a rush On calcareous substrates. Brescian Prealps and Rhaetian Alps.

Juncus compressus Round-fruited Rush

Juncus tenuis Slender Rush

Juncus subnodulosus Blunt-flowered Rush Val di Scalve 2023

Juncus acutiflorus Sharp-flowered Rush

Juncus articulatus Jointed Rush

Juncus triglumis Three-flowered Rush Wet flushes in Rhaetian Alps, 2015.

Luzula campestris Field Woodrush Scattered records.

Luzula multiflora Many-flowered Woodrush Brescian Prealps.

Luzula sudetica a woodrush Scattered records.

Luzula alpina Alpine Woodrush Brescian Prealps and Rhaetian Alps.

Luzula spicata Spiked Woodrush Gavia and Stelvio NP.

Luzula lutea a woodrush Brescian Prealps and Viola, locally common.

Luzula nivea a woodrush Oga Bog and below Vivione.

Luzula luzuloides ssp. *rubella* White Woodrush Forests in Rhaetian Alps and Brescian

<i>Luzula alpinopilosa</i>	a woodrush	Prealps.
<i>Luzula glabrata</i>	a woodrush	Scattered records, locally common.
<i>Luzula pilosa</i>	Hairy Woodrush	Val Viola and Gavia. Oga Fort 2023.
Cyperaceae		
<i>Scirpus sylvaticus</i>	Wood Club-rush	Brescian Prealps 2018.
<i>Trichophorum alpinum</i>	Cotton Deer-grass	Oga Bog.
<i>Trichophorum caespitosum</i>	Deer-grass	Acidic wet flushes, Vivione.
<i>Blysmus compressus</i>	Flat-headed Sedge	Brescian Prealps.
<i>Eriophorum angustifolium</i>	Common Cotton-grass	Acidic wet flushes, Vivione.
<i>Eriophorum latifolium</i>	Broad-leaved Cotton-grass	Basic flushes, Val Viola.
<i>Eriophorum vaginatum</i>	Hare's-tail Cotton-grass	Acidic bogs, Vivione, and Brescian Prealps.
<i>Eriophorum scheuchzeri</i>	a cotton-grass	Acidic bogs, Rhaetian Alps, not in flower this year.
<i>Carex paniculata</i>	Tussock Sedge	Oga Bog.
<i>Carex spicata</i>	Spiked Sedge	Near Borno.
<i>Carex pairae</i>	a sedge	Bergamasche Orobieenne Alps, 2023.
<i>Carex brizoides</i>	a sedge	Vivione.
<i>Carex leporina</i>	Oval Sedge	Brescian Prealps.
<i>Carex echinata</i>	Star Sedge	Brescian Prealps, Vivione, Viola, Oga Bog.
<i>Carex dioica</i>	Dioecious Sedge	Vivione and Oga Bog.
<i>Carex davalliana</i>	Davall's Sedge	Oga Bog.
<i>Carex lachenalii</i>	Hare's-foot Sedge	Rhaetian Alps 2018.
<i>Carex canescens</i>	Silvery Sedge	Vivione.
<i>Carex curvula</i>	Curved Sedge	Locally dominant in acid grassland.
<i>Carex rostrata</i>	Bottle Sedge	Locally dominant at Oga Bog.
<i>Carex sylvatica</i>	Wood Sedge	Vivione.
<i>Carex capillaris</i>	Hair Sedge	Oga Bog and Stelvio.
<i>Carex flacca</i>	Glauous Sedge	Widespread and very common.
<i>Carex panicea</i>	Carnation Sedge	Viola and Oga Bog.
<i>Carex distans</i>	Distant Sedge	Oga Bog.
<i>Carex hostiana</i>	Tawny Sedge	Vivione.
<i>Carex flava</i>	Great Yellow-sedge	Brescian Prealps.
<i>Carex lepidocarpa</i>	Long-stalked Yellow Sedge	Brescian Prealps, Vivione, and Oga Bog.
<i>Carex demissa</i>	Common Yellow Sedge	Oga Bog 2019.
<i>Carex viridula</i>	a yellow sedge	
<i>Carex pallescens</i>	Pale Sedge	Moister grassland and wood edges, e.g. Vivione and Brescian Prealps.
<i>Carex halleriana</i>	a sedge	
<i>Carex ornithopoda</i>	Bird's-foot Sedge	Oga Fort 2023.
<i>Carex ornithopodioides</i>	a bird's-foot sedge	Brescian Prealps.
<i>Carex caryophyllea</i>	Spring Sedge	Stelvio NP.
<i>Carex umbrosa</i>	a sedge	Oga Bog.
<i>Carex montana</i>	Soft-leaved Sedge	Widespread and very common.
<i>Carex alba</i>	a sedge	Cancano 2019.
<i>Carex sempervirens</i>	Evergreen Sedge	Widespread and common.
<i>Carex firma</i>	a sedge	On calcareous substrates, e.g. Stelvio NP.
<i>Carex mucronata</i>	a sedge	Stelvio NP 2019.
<i>Carex ferruginea</i>	a sedge	Widespread and locally common.

<i>Carex fimbriata</i>	a sedge	Val Viola.
<i>Carex frigida</i>	a sedge	Calcareous flushes, Stelvio NP.
<i>Carex paupercula</i>	Tall Bog Sedge	Vivione.
<i>Carex atrata</i>	Jet Sedge	Scattered records. Nominate and <i>ssp.aterrima</i> .
<i>Carex parviflora</i>	a sedge	Rhaetian Alps 2018.
<i>Carex buxbaumii</i>	Club Sedge	Gavia 2023.
<i>Carex bicolor</i>	a sedge	Switzerland.
<i>Carex elata</i>	Tufted Sedge	Brescian Prealps, margins of Viola pond, and Vivione.
<i>Carex nigra</i>	Common Sedge	Scattered records, e.g. Brescian Prealps and Vivione.
<i>Carex microglochin</i>	Bristle Sedge	Brescian Prealps on recce.
<i>Carex pauciflora</i>	Few-flowered Sedge	Numerous at Vivione.
<i>Carex rupestris</i>	Rock Sedge	Switzerland and Stelvio NP.
<i>Carex pulicaris</i>	Flea Sedge	Brescian Prealps on recce.
Poaceae		
<i>Festuca melanopsis</i>	a fescue	
<i>Festuca rubra</i>	Red Fescue	
<i>Festuca laevigata</i>	a fescue	
<i>Festuca valesiaca</i>	a fescue	
<i>Festuca</i> spp.	Fescues	Many other species present.
<i>Lolium perenne</i>	Perennial Rye-grass	
<i>Lolium multiflorum</i>	Italian Rye-grass	
<i>Poa annua</i>	Annual Meadow-grass	
<i>Poa trivialis</i>	Rough Meadow-grass	
<i>Poa pratensis</i>	Smooth Meadow-grass	
<i>Poa nemoralis</i>	Wood Meadow-grass	
<i>Poa bulbosa</i>	Bulbous Meadow-grass	
<i>Poa alpina</i>	Alpine Meadow-grass	
<i>Dactylis glomerata</i>	Cock's-foot	
<i>Briza media</i>	Quaking Grass	
<i>Sesleria ovata</i>		
<i>Sesleria sphaerocephala</i>		
<i>Sesleria caerulea</i>		
<i>Oreochloa disticha</i>		
<i>Melica nutans</i>	Mountain Melick	
<i>Melica ciliata</i>	Ciliated Melick	
<i>Bromus inermis</i>	Hungarian Brome	
<i>Brachypodium sylvaticum</i>	Wood False-brome	
<i>Brachypodium pinnatum</i>	Tor Grass	
<i>Brachypodium rupestre</i>		
<i>Elymus caninus</i>	Bearded Couch	
<i>Elymus repens</i>	Common Couch	
<i>Helictotrichon pubescens</i>	Hairy Oat	
<i>Helictotrichon pratense</i>	Meadow Oat	
<i>Arrhenatherum elatius</i>	False Oat-grass	
<i>Koeleria pyramidata</i>	Pyramidal hair-grass	
<i>Trisetum flavescens</i>	Yellow Oat-grass	
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	

<i>Avenella flexuosa</i>		
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	
<i>Anthoxanthum alpinum</i>	Alpine Vernal-grass	
<i>Agrostis alpina</i>		
<i>Agrostis rupestris</i>	a bent-grass	
<i>Agrostis stolonifera</i>	Creeping Bent-grass	
<i>Polypogon viridis</i>	Water-bent	
<i>Calamagrostis varia</i>	a small-reed	
<i>Phleum pratense</i>	Timothy	
<i>Phleum alpinum</i>	Alpine Cat's-tail	
<i>Phleum rhaeticum</i>	a cat's-tail	
<i>Phleum phleoides</i>	Purple-stem Cat's-tail	
<i>Phleum hirsutum</i>	a cat's-tail	
<i>Alopecurus pratensis</i>	Meadow Foxtail	
<i>Phalaris arundinacea</i>	Reed Canary-grass	
<i>Achnatherum calamagrostis</i>		
<i>Phragmites australis</i>	Common Reed	
<i>Danthonia decumbens</i>	Heath-grass	
<i>Molinia caerulea</i>	Purple Moor-grass	
<i>Nardus stricta</i>	Mat-grass	
<i>Setaria pumila</i>	Yellow Bristle-grass	
<i>Sorghum halepense</i>		
 Sparganiaceae		
<i>Sparganium angustifolium</i>	Floating Bur-reed	In the pond at Vivione and in a pond in
Brescian		Prealps.
 Liliaceae		
<i>Tofieldia calyculata</i>	Tofield's Asphodel	Flushes, widespread. Dry slopes too!
<i>Veratrum album</i>	White False-helleborine	Widespread.
<i>Anthericum liliago</i>	St. Bernard's Lily	Below Vivione.
<i>Anthericum ramosum</i>	Branched St. Bernard's Lily	West of Borno.
<i>Paradisea liliastrum</i>	St. Bruno's Lily	Brescian Prealps, 2023.
<i>Lloydia serotina</i>	Snowdon Lily	Rhaetian Alps, locally numerous.
<i>Colchicum autumnale</i>	Meadow Saffron	In leaf.
<i>Gagea fragifera</i>		Still in flower in Switzerland, 2019.
<i>Fritillaria tubaeformis</i>		1 in fruit, Brescian Prealps, 2018.
<i>Lilium martagon</i>	Martagon Lily	Forest edges and meadows, widespread.
<i>Lilium bulbiferum</i>	Orange Lily	Brescian Prealps and Day 4.
<i>Ornithogalum gussonei</i>	a star-of-bethlehem	1 in fruit, Stelvio NP, 2019.
<i>Ornithogalum pyrenaicum</i>		In woods below Vivione, 2023 and 2024.
<i>Allium lusitanicum</i>	Portuguese Onion	In bud at Oga Fort 2019.
<i>Allium insubricum</i>		2023. Most in bud on Monte Arera, 1 in flower, whereas usually many in flower at this time. Endemic.
<i>Allium schoenoprasum</i>	Chives	Rhaetian Alps on recce.
<i>Allium carinatum</i>	Keeled Garlic	Scattered records 2015.
<i>Maianthemum bifolium</i>	May-lily	Val Viola, Vivione, etc.
<i>Polygonatum verticillatum</i>	Whorled Solomon's-seal	Brescian Prealps and Rhaetian Alps.
<i>Polygonatum multiflorum</i>	Solomon's Seal	Val di Scalve 2019.

<i>Polygonatum odoratum</i>	Scented Solomon's-seal	Lower Stelvio.
<i>Paris quadrifolia</i>	Herb Paris	Oga woods 2018.
Iridaceae		
<i>Crocus albiflorus</i>	White Crocus	Just gone over at Gavia.
Orchidaceae		
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	Stelvio NP.
<i>Epipactis atrorubens</i>	Dark Red Helleborine	Near Borno and lower Stelvio.
<i>Cephalanthera longifolia</i>	Narrow-leaved Helleborine	Near Croce Domini.
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	Lower Stelvio.
<i>Listera ovata</i>	Twayblade	Brescian Prealps.
<i>Goodyera repens</i>	Creeping Lady's Tresses	A few above Bormio, in bud, 2023.
<i>Platanthera bifolia</i>	Lesser Butterfly Orchid	Scattered, e.g. west of Borno, Oga Bog and Stelvio.
<i>Platanthera chlorantha</i>	Greater Butterfly Orchid	Stelvio NP 2019.
<i>Chamorchis alpina</i>		Several in Stelvio NP. Not seen 2024.
<i>Gymnadenia conopsea</i>	Fragrant Orchid	Widespread and often common.
<i>Gymnadenia odoratissima</i>	Short-spurred Fragrant Orchid	Locally common Brescian Prealps and Stelvio.
<i>Pseudorchis albida</i>	Small White Orchid	Widespread in small numbers, e.g. Brescian Prealps.
<i>Nigritella rhellicani</i>	Black Vanilla Orchid	Brescian Prealps, Stelvio, Val Viola.
<i>Nigritella rubra</i>	a vanilla orchid	Stelvio NP 2023.
<i>Coeloglossum viride</i>	Frog Orchid	Brescian Prealps, Sta. Caterina, Stelvio.
<i>Dactylorhiza sambucina</i>	Elder-flowered Orchid	Gone over on recce.
<i>Dactylorhiza incarnata</i>	Early Marsh Orchid	Oga Bog, new in 2024.
<i>Dactylorhiza cruenta</i>	Flecked Marsh Orchid	Oga Bog.
<i>Dactylorhiza majalis</i>	Alpine Marsh Orchid	Vivione, Gavia and Stelvio.
<i>Dactylorhiza lapponica</i>	a marsh orchid	Vivione.
<i>Dactylorhiza fuchsii</i>	Common Spotted Orchid	Common in woods and meadows.
<i>Traunsteinera globosa</i>	Round-headed Orchid	Brescian Prealps. Also Arera in 2023.
<i>Orchis ustulata</i>	Burnt Orchid	2, Brescian Prealps, on recce.
<i>Ophrys insectifera</i>	Fly Orchid	More or less over above Bormio, 2019.

Systematic List Number 2 Birds

The emphasis was on plants and butterflies, but the following birds were seen.

Great Crested Grebe	<i>Podiceps cristatus</i>	Lago d'Iseo.
Cormorant	<i>Phalacrocorax carbo</i>	Lower Val Camonica.
Cattle Egret	<i>Bubulcus ibis</i>	Veneto plains.
Little Egret	<i>Egretta garzetta</i>	Lower altitudes.
Grey Heron	<i>Ardea cinerea</i>	A few records.
Mallard	<i>Anas platyrhynchos</i>	Scattered records.
Short-toed Eagle	<i>Circaetus gallicus</i>	Brescian Prealps.
Lammergeier	<i>Gypaetus barbatus</i>	4 in Stelvio.
Black Kite	<i>Milvus migrans</i>	Lower altitudes.
Short-toed Eagle	<i>Circaetus gallicus</i>	Brescian Prealps.
Buzzard	<i>Buteo buteo</i>	Scattered records.
Common Kestrel	<i>Falco tinnunculus</i>	Scattered records.
Hobby	<i>Falco subbuteo</i>	Sta. Caterina Valfurva.
Quail	<i>Coturnix coturnix</i>	Heard Brescian Prealps.
Coot	<i>Fulica atra</i>	Lago d'Iseo.
Yellow-legged Gull	<i>Larus cachinnans</i>	Lower altitudes.
Rock Dove	<i>Columba livia</i>	Towns, especially in the lowlands.
Woodpigeon	<i>Columba palumbus</i>	Scattered records.
Collared Dove	<i>Streptopelia decaocto</i>	Towns.
Cuckoo	<i>Cuculus canorus</i>	Heard at various sites.
Common Swift	<i>Apus apus</i>	Widespread.
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Heard.
Skylark	<i>Alauda arvensis</i>	Heard.
Crag Martin	<i>Ptyonoprogne rupestris</i>	Widespread and common.
Swallow	<i>Hirundo rustica</i>	Scattered records.
House Martin	<i>Delichon urbica</i>	Widespread and common.
Tree Pipit	<i>Anthus trivialis</i>	Val Viola.
Water Pipit	<i>Anthus spinoletta</i>	Higher altitudes, widespread.
Grey Wagtail	<i>Motacilla cinerea</i>	Scattered records.
White Wagtail	<i>Motacilla alba</i>	Widespread in small numbers.
Wren	<i>Troglodytes troglodytes</i>	Scattered records.
Dunnock	<i>Prunella modularis</i>	Val Viola.
Robin	<i>Erithacus rubecula</i>	Scattered records.
Black Redstart	<i>Phoenicurus ochruros</i>	Common around the hotels and seen also at various other sites.
Common Redstart	<i>Phoenicurus phoenicurus</i>	Scattered records.
Whinchat	<i>Saxicola rubetra</i>	Val Viola.
Northern Wheatear	<i>Oenanthe oenanthe</i>	Widespread at higher altitudes.
Blackbird	<i>Turdus merula</i>	Widespread.
Fieldfare	<i>Turdus pilaris</i>	Sta. Caterina Valfurva.
Song Thrush	<i>Turdus philomelos</i>	Scattered records.
Mistle Thrush	<i>Turdus viscivorus</i>	Scattered records.
Lesser Whitethroat	<i>Sylvia curruca</i>	Above Sta. Caterina Valfurva.
Garden Warbler	<i>Sylvia borin</i>	Heard.
Blackcap	<i>Sylvia atricapilla</i>	Widespread.
Bonelli's Warbler	<i>Phylloscopus bonelli</i>	Heard.
Chiffchaff	<i>Phylloscopus collybita</i>	Widespread.

Goldcrest	<i>Regulus regulus</i>	Scattered records.
Coal Tit	<i>Parus ater</i>	Scattered records.
Blue Tit	<i>Parus caeruleus</i>	Scattered records.
Great Tit	<i>Parus major</i>	Scattered records.
Nuthatch	<i>Sitta europaea</i>	Heard at Oga.
Red-backed Shrike	<i>Lanius collurio</i>	2 on Day 7.
Jay	<i>Garrulus glandarius</i>	Widespread.
Magpie	<i>Pica pica</i>	Lower altitudes.
Nutcracker	<i>Nucifraga caryocatactes</i>	Widespread in coniferous forest, locally common. Often heard.
Alpine Chough	<i>Pyrrhocorax graculus</i>	Quite common above 2000m, and often very tame.
Carrion Crow	<i>Corvus corone corone</i>	Widespread.
Hooded Crow	<i>Corvus corone cornix</i>	Lower altitudes.
Raven	<i>Corvus corax</i>	Widespread.
Starling	<i>Sturnus vulgaris</i>	Scattered records.
Italian Sparrow	<i>Passer italiae</i>	Widespread.
Snow Finch	<i>Montifringilla nivalis</i>	Gavia and Stelvio NP.
Chaffinch	<i>Fringilla coelebs</i>	Widespread and common.
Serin	<i>Serinus serinus</i>	Scattered records.
Greenfinch	<i>Carduelis chloris</i>	Scattered records.
Goldfinch	<i>Carduelis carduelis</i>	Scattered records.
Linnet	<i>Carduelis cannabina</i>	Scattered records.
Redpoll	<i>Carduelis flammea</i>	Sta. Caterina Valfurva.
Yellowhammer	<i>Emberiza citrinella</i>	Brescian Prealps.

Systematic List Number 3 Mammals, Reptiles, and Amphibians

Alpine Marmot	<i>Marmota marmota</i>	Locally common, seen or heard on several days.
Red Squirrel	<i>Sciurus vulgaris</i>	Val Viola.
Wild Boar	<i>Sus scrofa</i>	Sign.
Alpine Ibex	<i>Capra ibex</i>	A few in Stelvio NP. Also Gavia.
Mountain Hare	<i>Lepus timidus</i>	Droppings at higher altitudes.
Crested Newt	<i>Triturus cristatus</i>	Mt.Arera 2015.
Alpine Newt	<i>Triturus alpestris</i>	Viola pond 2018.
Common Frog	<i>Rana temporaria</i>	Scattered records.
Common Toad	<i>Bufo bufo</i>	Scattered records.
Common Lizard	<i>Lacerta vivipara</i>	Scattered records.
Common Wall Lizard	<i>Podarcis muralis</i>	Scattered records.
Grass Snake	<i>Natrix natrix</i>	2 on Mt.Arera 2015.

Systematic List Number 4

Butterflies

The nomenclature and the systematic order follow Tolman and Lewington's *Butterflies of Britain and Europe* published by HarperCollins (1997). Species added to the list this year are annotated 2024. Species not seen this year are annotated with the year they were last seen. Of course all species with no year annotation were seen this year.

Papilionidae

Swallowtail	<i>Papilio machaon</i>	Common in Val Viola.
Scarce Swallowtail	<i>Iphiclides podalirius</i>	Seen on the transfer day to Maritime Alps.
Apollo	<i>Parnassius apollo</i>	Val Viola 2023.
Small Apollo	<i>Parnassius phoebus</i>	Below Gavia, and Foscagno, 2023.

Pieridae

Large White	<i>Pieris brassicae</i>	Scattered records, 2023.
Small White	<i>Artogeia rapae</i>	Scattered records.
Green-veined White	<i>Artogeia napi</i>	Scattered records.
Mountain Green-veined White	<i>Artogeia bryoniae</i>	A few at higher altitudes.
Peak White	<i>Pontia callidice</i>	Stelvio NP.
Orange-tip	<i>Anthocharis cardamines</i>	A male Day 3, 2023.
Mountain Clouded Yellow	<i>Colias phicomone</i>	Stelvio NP and Livigno, 2023.
Moorland Clouded Yellow	<i>Colias palaeno</i>	Several in Val Viola.
Clouded Yellow	<i>Colias crocea</i>	Scattered records.
Pale Clouded Yellow	<i>Colias hyale</i>	Mt. Arera 2023.
Brimstone	<i>Gonepteryx rhamni</i>	Day 3.
Wood White	<i>Leptidea sinapis</i>	Scattered records.

Lycaenidae

Green Hairstreak	<i>Callophrys rubi</i>	Val di Scalve and Val Viola.
Sooty Copper	<i>Lycaena tityrus</i>	Val Viola.
Purple-shot Copper	<i>Lycaena alciphron</i>	A female west of Borno, 2024.
Purple-edged Copper	<i>Lycaena hippothoe</i>	Livigno 2023.
Little Blue	<i>Cupido minimus</i>	Widespread and locally common.
Holly Blue	<i>Celastrina argiolus</i>	Val di Scalve.
Large Blue	<i>Maculinea arion</i>	Orobienne Alps, 2024.
Silver-studded Blue	<i>Plebejus argus</i>	Vivione 2024.
Idas Blue	<i>Plebejus idas</i>	Val Viola 2024.
Cranberry Blue	<i>Vacciniina optilete</i>	Val Viola.
Brown Argus	<i>Aricia agestis</i>	Brescian Prealps 2023.
Geranium Argus	<i>Eumedonia eumedon</i>	Arera 2023.
Alpine Blue	<i>Albulina orbitulus</i>	2 males in Switzerland (Stelvio).
Glandon Blue	<i>Agriades glandon</i>	Switzerland (Stelvio) 2023.
Mazarine Blue	<i>Cyaniris semiargus</i>	Scattered records.
Chalk-hill Blue	<i>Lysandra coridon</i>	Arera and Day 3 2023.
Common Blue	<i>Polyommatus icarus</i>	Vivione 2024.

Riodinidae

Duke of Burgundy Fritillary	<i>Hamearis lucina</i>	West of Borno.
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Nymphalidae

Purple Emperor	<i>Apatura iris</i>	Val di Scalve on two days.
Lesser Purple Emperor	<i>Apatura ilia</i>	form <i>clytie</i> , Val de Scalve, 2024.
Southern White Admiral	<i>Limenitis reducta</i>	Val di Scalve 2024.
White Admiral	<i>Limenitis camilla</i>	Val di Scalve.
Large Tortoiseshell	<i>Nymphalis polychloros</i>	Arera 2023.
Red Admiral	<i>Vanessa atalanta</i>	Scattered records 2023.
Small Tortoiseshell	<i>Aglais urticae</i>	Widespread in small numbers.
Comma	<i>Polygonia c-album</i>	Val di Scalve.
Silver-washed Fritillary	<i>Argynnis paphia</i>	Day 4.
High Brown Fritillary	<i>Argynnis adippe</i>	Val di Scalve 2024.
Shepherd's Fritillary	<i>Boloria pales</i>	Gavia and Switzerland, 2023.
Mountain Fritillary	<i>Boloria napaea</i>	Day 7, 2023.
Pearl-bordered Fritillary	<i>Clossiana ephrosyne</i>	West of Borno and Val Viola.
Spotted Fritillary	<i>Melitaea didyma</i>	Lago d'Iseo.
Heath Fritillary	<i>Mellicta athalia</i>	Scattered records.
Asian Fritillary	<i>Hypodryas intermedia</i>	A female Val Viola, 2023.
Marsh Fritillary	<i>Euphydryas aurinia</i>	Stelvio NP and Livigno, ssp. <i>glaceigenita</i> 2023.

Satyridae

Marbled White	<i>Melanargia galathea</i>	Scattered records.
Alpine Grayling	<i>Oeneis glacialis</i>	Switzerland (Stelvio) 2023.
N.B. significantly fewer species and individuals of <i>Erebia</i> were seen on the tour this year, due to weather and a late season, the same being the case on the other alpine tours too.		
Arran Brown	<i>Erebia ligea</i>	Below Vivione.
Large Ringlet	<i>Erebia euryale</i>	Scattered records 2023.
Eriphyle Ringlet	<i>Erebia eriophyle</i>	Crocedomini 2023.
Lesser Mountain Ringlet	<i>Erebia melampus</i>	Arera and Val Viola 2023.
Woodland Ringlet	<i>Erebia medusa</i>	Orobienne Alps on two days
Almond-eyed Ringlet	<i>Erebia alberganus</i>	Vivione.
Sooty Ringlet	<i>Erebia pluto</i>	Stelvio NP 2023.
Silky Ringlet	<i>Erebia gorge</i>	Gavia, form <i>triopes</i> . 2023.
Stygian Ringlet	<i>Erebia styx</i>	Val di Scalve.
Dewy Ringlet	<i>Erebia pandrose</i>	Locally common at higher altitudes, 2023.
Small Heath	<i>Coenonympha pamphilus</i>	Scattered records.
Pearly Heath	<i>Coenonympha arcania</i>	Scattered records.
Darwin's Heath	<i>Coenonympha darwiniana</i>	1+ on Arera, 2023.
Alpine Heath	<i>Coenonympha gardetta</i>	Vivione and Viola.
Speckled Wood	<i>Pararge aegeria</i>	Vivione 2023.
Wall Brown	<i>Lasiommata megera</i>	Brescian Prealps 2023.
Large Wall Brown	<i>Lasiommata maera</i>	Scattered records, e.g. Val Viola.
Northern Wall Brown	<i>Lasiommata petropolitana</i>	Several in Val Viola.

Hesperiidae

N.B. Species of *Pyrgus* were notably fewer in number, of species and individuals, this year, also the case on the Other alpine tours

Grizzled Skipper	<i>Pyrgus malvae</i>	Stelvio NP, Val Viola, Day 4.
Large Grizzled Skipper	<i>Pyrgus alveus</i>	Scattered records, 2023.
Oberthur's Grizzled Skipper	<i>Pyrgus armoricanus</i>	Day 4, 2024.
Olive Skipper	<i>Pyrgus serratulae</i>	Scattered records, 2023.

Safflower Skipper	<i>Pyrgus carthami</i>	Brescian Prealps, 2023.
Alpine Grizzled Skipper	<i>Pyrgus andromedae</i>	Stelvio NP, 2023.
Dingy Skipper	<i>Erynnis tages</i>	Scattered records.
Chequered Skipper	<i>Carterocephalus palaemon</i>	Day 3, 2024.
Large Skipper	<i>Ochlodes venatus</i>	Scattered records.