

# Norway – Alpine Flowers of the Gol Plateau

Naturetrek Tour Report

4 - 11 July 2015



*Harrimanella hypnoides*



*Linnea borealis*



*Ranunculus reptans*



*Sedum villosum*

Report and images by Paul Harmes & Jessica Turner



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Tour Participants: Paul Harmes & Jessica Turner (leaders) with 13 Naturetrek clients

## Day 1

Saturday 4th July

### Fly Heathrow to Oslo – Transfer to Kamben

Nine group members met with Paul and Jessica at Heathrow Terminal 5 for the British Airways flight BA762 to Oslo Gardermoen. Upon arrival in Norway, we soon completed immigration formalities and collected our luggage, before we made our way out into the arrivals area where we met up with Judy, Megan and Christine, who had all arrived on separate flights, while Gill joined us later. We located our bus driver, Lars, and quickly loaded our luggage into the vehicle and made our way out of the airport and onto the E16, the main Bergen road. As we went we recorded Barn Swallow and Hooded Crow, together with *Geranium sylvaticum* (Wood Crane's-bill) and *Aconitum septentrionale* (Northern Wolf's-bane). Our route took us north-west from the capital, passing through Jevnaker, the outskirts of Hønefoss and along the east side of Sperillen fjord.

After a little more than an hour, we made a stop for lunch at the Verkroa Kafe just outside Nes i Ådal. Swift and House Martin were seen, and a small rough area yielded *Linaria vulgaris* (Common Toadflax), *Rumex longifolia* (Northern Dock), *Vicia cracca* (Tufted Vetch) and *Potentilla norvegica* (Norwegian Cinquefoil).

We now continued our journey on to Aurdal, where we turned southwest through Mønin and up towards the Gol Plateau, and on up to Golsfjellet and the Kamben Høyfjellshotell, our base for the week. Along the way we saw Kestrel and Common Swift and several road verges with *Trollius europaeus* (Globeflower). Upon our arrival at our hotel, we were met and made welcome by Elin the co-proprietor.

After we settled into our rooms, some of us made a short excursion around the hotel to make ourselves familiar with some of the species of the area, whilst others chose to take a walk up towards Storefjell. Plants found included *Aconitum septentrionale* (Northern Wolf's-bane), *Arabidopsis arenosa* (Tall Rock-cress), *Viola canina* (Heath Dog Violet), *Geranium sylvaticum* (Wood Crane's-bill) and *Geum rivale* (Water Avens). After this, we returned to the hotel to prepare for dinner. Just before we ate, Jessica and Paul outlined some of the plans for the next few days.

## Day 2

Sunday 5th July

### Hanningan - Skutuset - Brautemo

Our first full day of the tour was spent exploring the boreal forests of the Gol Plateau. Leaving the hotel at 9am, we were driven down to Hanningan by Martin. As we went, we saw a group of seven Common Cranes grazing a field. We began by taking the path towards the settlement of Skutuset. Early finds were *Geranium sylvaticum* (Wood Crane's-bill), *Melampyrum sylvaticum* (Wood Cow-wheat), *Moneses uniflora* (One-flowered Wintergreen), *Trientalis europaea* (Chickweed Wintergreen) and two good stands of *Neottia cordata* (Lesser Twayblade). Many sedges and rushes were evident in the very wet flushes and *Lycopodium clavatum* (Stag's-horn Clubmoss) and *Equisetum sylvaticum* (Wood Horsetail) were added. In an open bog we recorded *Vaccinium oxycoccos* (Cranberry), *Andromeda polifolia* (Bog Rosemary), *Menyanthes trifoliata* (Bogbean), a good colony of *Rubus chamaemorus* (Cloudberry) and *Dactylorhiza incarnata* subsp. *pulchella* (an Early Marsh Orchid). Further along the path we saw Bog Fritillary and Pearl-bordered Fritillary butterflies, before we stopped for our picnic lunch.

Moving on after eating, we added *Sedum villosum* (Hairy Stonecrop), *Cardamine amara* (Large Bitter-cress), *Saxifraga stellaris* (Starry Saxifrage), *Dactylorhiza viridis* (Frog Orchid) and *Gymnadenia conopsea* subsp. *densiflora* (Fragrant Orchid). Bird life was rather quiet, with only Robin, Coal Tit, and Chaffinch all heard. The path we were following took us to the small hamlet of Skutuset. The roadside wood yielded *Polygonatum verticillatum* (Whorled Solomon's-seal), and we added Red Admiral and Small Tortoiseshell butterflies. From Skutuset we turned south towards the village of Brautemo, passing through more boreal forest littered with lichen covered rocky outcrops interspersed with more wet flushes, mires and streams. As we were walking through the forest we disturbed a female Capercaillie, which took to the air. Descending the last one and a half kilometres, we came out onto the main road where Martin, the hotel proprietor, was to meet us to take us back to the hotel for dinner. Whilst we were waiting, we explored a small, open wet area, finding *Ranunculus reptans* (Creeping Spearwort), *Veronica scutellata* (Marsh Speedwell) and *Alopecurus aequalis* (Orange Foxtail). Willow Warbler and Chiffchaff were also heard.

When we got back to Kamben, we had time to freshen up before our evening meal. During the meal a solitary male Hen Harrier was seen hunting in the field below the hotel and, later, a pair of Cranes.

## Day 3

Monday 6th July

### Solseter to Gol

Today, in heavy rain, Martin dropped us off at the village of Solseter, half way between our hotel and Gol. Here we took the path, which crosses the road in several places, down to the town of Gol. The early part of the route was through more semi-open, wet forest. Here we found *Populus tremula* (Aspen), *Melampyrum pratense* (Common Cow-wheat) and the leaves of *Comarum palustris* (Marsh Cinquefoil). As we moved lower, the rain eased off and the habitat changed to a series of meadows and track verges with species such as *Galeopsis tetrabit* (Common Hemp-nettle), *Pimpinella saxifraga* (Lesser Burnet-saxifrage), *Carum carvi* (Caraway) and *Sedum telephium* (Orpine). An area of tree felling proved rather good for birds, with Tree Pipit, Fieldfare, Mistle Thrush, Chaffinch and a family of Great Spotted Woodpeckers. The highlight was a very good sighting of Woodcock. Lunch was taken by a track, among a number of stumps and boulders. As we ate, Willow Warbler was heard and Gill found a pair of Siberian Jays, another avian highlight, being mobbed by a pair of Spotted Flycatchers, no doubt trying to protect their nest from predation.

Continuing on, we also came across some nice patches of *Vicia sylvatica* (Wood Vetch) below *Pinus sylvestris* (Scots Pine) and *Picea abies* (Norway Spruce). This area held such goodies as *Arctostaphylos uva-ursi* (Bearberry), *Vaccinium vitis-idaea* (Cowberry), *Phegopteris connectilis* (Beech Fern), *Pyrola norvegica* (Norwegian Wintergreen), *Anthyllis filix-femina* (Lady Fern), and some nice spikes of *Platanthera bifolia* (Lesser Butterfly Orchid). As it was an overcast day, the insects were not very active. However, we did see Northern Wall Brown and Small Heath butterflies, Common Heath, Latticed Heath and Common White Wave moths and a Rose Chafer and Soldier Beetles. The path emerged from the woodland next to an electricity substation, and on a pile of adjacent rocks we found *Polypodium vulgare* (Common Polypody), before re-entering the woodland. The path emerged on the outskirts of Gol, where the heavy rain returned. However, we all took some time to look around and do a little shopping, as well as enjoy some refreshments and visit the information centre.

At 4pm, we met up with Martin for the return journey to Kamben.

## Day 4

Tuesday 7th July

### 'Norway in a Nutshell': Gol – Myrdal – Flåm – Gudvangen

Today we went on the 'Norway in a nutshell' excursion. After breakfast at 7.30am, we boarded the minibus for Martin to drive us to the railway station at Gol. Here we boarded the 9.25am train to Myrdal. There was a 15 minute stop at Haugastøl station and we left the train, briefly, to explore. Here we found several spikes of *Papaver nudicaule* (Iceland Poppy) and a solitary, and distant, Long-tailed Duck. As we approached Finse, the highest station on the Oslo to Bergen route at 1222m, there were some distant views of the Hardanger Glacier, and a large quantity of remaining snow. Here, the train waited just long enough for some of the group to disembark to take photos. At Myrdal, we transferred to the spectacular Flåm Railway. Completed in 1940, this unique railway took twenty years to build, and drops 864m in 20km to Flåm on the side of the Aurlandsfjorden (Aurlands Fjord). The journey, down the Flåm valley, took us through some magnificent scenery; not least of which was the scheduled stop to view the thundering power of the mighty Kjosfossen Waterfall. As we descended, we recorded *Saxifraga corymbosa* (Pyramidal Saxifrage), *Sedum roseum* (Roseroot), *Phyllocladus tereticaedus* (Blue Mountain Heath), *Oxyria digyna* (Mountain Sorrel) and *Digitalis purpurea* (Foxglove). Upon our arrival in Flåm we transferred to the steamer, 'Skagastøl Fjord' for the two hour journey to Gudvangen. As we sailed down this stunning fjord, we had an attendant flock of Mew (Common) Gulls, waiting to join us for lunch! We also saw a pair of Goldeneye, several Red-breasted Mergansers, Black Guillemot, Oystercatcher and a single sighting of Harbour Porpoise. Tiny picturesque villages and fabulous scenery made this trip truly memorable. In addition, many of the waterfalls along the fjord were at their roaring best, due to recent rain and snow-melt.

When we arrived in Gudvangen we met with Knut, our driver for the return journey to Kamben. By the bus park, a moss-covered rocky wall produced three species of fern, *Phegopteris connectilis* (Beech Fern), *Athyrium filix-femina* (Lady-fern) and *Dryopteris filix-mas* (Male-fern). We now boarded the bus for drive back, passing through a network of new road tunnels, including one of 23km, the longest road tunnel in the world. We made a scheduled stop at Borgund to visit its magnificent stave-church, dedicated to St. Andrew. Built in about 1180, it is one of the most complete remaining examples of these medieval buildings. We were shown around by our guide, Anders, who gave us a detailed explanation of the features and construction of the church. The walls surrounding the church had some fine clumps of *Sedum acre* (Biting Stonecrop) and an adjacent field had *Campanula rotundifolia* (Harebell) and *Viola tricolor* agg. (Heartsease)

Leaving Borgund, we joined the E16 Bergen to Oslo highway for our homeward journey, turning off in a south-easterly direction towards Hemsedal and Gol, and arriving back at the hotel at 7.40pm, for dinner.

## Day 5

Wednesday 8th July

### Skutuset – Syningen – Storefjell - Kamben

Today we were dropped off, in light drizzle and low cloud, in the small hamlet of Skutuset, only this time, we set off in a different direction. As we made this short journey from Kamben, we saw a pair of Cranes feeding in a field. Before we set off on the walk, we found some very good candidates for the Birch hybrid between *Betula pubescens* (Downy Birch) and *Betula nana* (Dwarf Birch). The track took us north through open woodland, where we soon found *Vaccinium uliginosum* (Bog Whortleberry) and *Alchemilla alpina* (Alpine Lady's-mantle). Our first objective was a small hill called Syningen (1031m), which we reached in good time. Among the rocks at the base

of Syningen, we found *Botrychium lunaria* (Moonwort), *Woodsia ilvensis* (Oblong Woodsia), *Silene rupestris* (Rock Catchfly) and *Juncus trifidus* (Three-leaved Rush), before making an ascent. On the summit we added *Arctous alpina* (Alpine Bearberry), *Athyrium alpestre* (Alpine Lady-fern), *Carex panicea* (Carnation Sedge) and *Carex atrata* (Black Alpine Sedge). As we were making our way down, Graeme spotted a colony of *Saxifraga cespitosa* (Tufted Saxifrage) growing in an area of loose 'slate' scree.

Moving on, we began to make our way through open, wet Juniper and Spruce forest. Along the way we added *Pinus uncinata* (Mountain Pine), *Stellaria alsine* (Bog Stitchwort), *Gnaphalium supinum* (Dwarf Cudweed), *Gnaphalium sylvaticum* (Heath Cudweed) and *Cardamine amara* (Greater Bitter-cress), before stopping to have lunch. By now the drizzle had all but stopped, and it had become noticeably warmer. During the meal, a distant Cuckoo was heard and Willow Warbler seen. Continuing onwards, we made our way along an access track, which joined the main road to the Storefjell Resort Hotel. Here we added *Astragalus alpinus* (Alpine Milk-vetch), *Erigeron humilis* (Snow Fleabane), *Parnassia palustris* (Grass-of-Parnassus), *Erigeron uniflora* (One-flowered Fleabane), and one or two flowers of *Veronica fruticans* (Rock Speedwell). Just before the hotel, we turned right along a cycle track back towards our hotel, adding *Pyrola norvegica* (Norwegian Wintergreen) and *Dactylorhiza viridis* (Frog Orchid), as we went.

Having indulged in tea and coffee at Kamben, we went out again from the hotel, taking the path towards Storefjell. Hooded Crows and Fieldfares were seen, and also Yellowhammer. The footpath had *Phyllodoce caerulea* (Blue Mountain Heath) and more *Botrychium lunaria* (Moonwort) and the adjacent wet areas produced *Vaccinium oxycoccos* (Cranberry) and *Triglochin palustris* (Marsh Arrowgrass). We now returned to the hotel in time to freshen up for dinner.

## Day 6

Thursday 9th July

### Skogshorn

We awoke today to a much cleared and brighter day and, after breakfast, we joined the minibus for the journey to the car park at the base of the Skogshorn, which at 1728m is the fifth highest mountain in the municipality of Hemwedal. After about 45 minutes, and having passed through Solseter and Eikregardane, we found ourselves at the start point for our walk up the mountain. The path climbs steadily northwards from the road, before turning west, where it begins to get steeper. It then bears south-west and up the steepest section to the summit.

As we set out we immediately found *Campanula rotundifolia* (Harebell), with particularly large flowers, beside the path and *Salix lapponum* (Downy Willow) showing its red anthers. Harebells in Norway show a complex pattern of polyploidy (multiple copies of genetic material) resulting in some very robust plants. Angela also spotted a Bluethroat, and Willow Warbler and Chiffchaffs were also active. The route, as it rose, took us through *Betula pubescens* (Downy Birch) woodland and into a shrub layer of *Salix lapponum* (Downy Willow), *Salix arbuscula* (Mountain Willow), *Betula nana* (Dwarf Birch), the under-storey of which had *Potentilla erecta* (Tormentil), *Gymnocarpium dryopteris* (Oak Fern), *Phegopteris connectilis* (Beech Fern) and *Geranium sylvaticum* (Wood Crane's-bill). This habitat gave way to an upper area of rough gravel paths and boulder-strewn hillsides, which still had a quantity of snow lying. Here the path began to rise more steeply, as we began to find a number of the smaller and prostrate shrub species. These included *Phyllodoce caerulea* (Blue Mountain Heath), *Arctous alpina* (Alpine Bearberry), *Empetrum nigrum* (Crowberry), *Kalmia procumbens* (Trailing Azalea), *Vaccinium vitis-idaea* (Cowberry) and

the diminutive *Harrimanella hypnoides* (Cassiope). We took our lunch using a hollow and some large boulder to shelter from the chilly wind.

After eating, we continued to explore, adding *Ranunculus glacialis* (Glacier Crowfoot) and *Cardamine bellidifolia* (Alpine Bitter-cress), before it was time to begin our descent. Along the way we found a number of boggy areas containing *Andromeda polifolia* (Bog Rosemary), *Eriophorum angustifolium* (Common Cotton-grass), *Dactylorhiza fuchsii* (Common Spotted Orchid) and *Eriophorum scheuchzeri* (Scheuchzer's Cotton-grass) and, in the slightly dryer areas, yellow spikes of *Pedicularis lapponica* (Lapland Lousewort).

We all returned to the car park in time to meet our transport back to the hotel. The return journey took us along the northern shore of Tisleifjorden lake and down to Oset and on to Kamben.

## Day 7

Friday 10th July

### Grønlie – Krististølen – Gomobu - Vasetstølen

Today we travelled out to Grønlie, the farthest of any of our local, daily excursions. Leaving the hotel, we traveled north to the village of Oset, before crossing the dam at the eastern end of the Tisleifjorden. From here, we turned north-west and followed the northern shore of the fjord through Langestølen, Nøser and then north-east to Rensenn. Another kilometer or so further on, we stopped at the small remote car park at Grønlie. From here we set off in a easterly direction towards the hamlet of Krististølen. On the way we had views of Meadow Pipits and a solitary Twite. As we left Krististølen, we passed a small outcrop of rocks. *Athyrium alpestre* (Alpine Lady-fern), *Phegopteris connectilis* (Beech Fern), *Rubus chamaemorus* (Cloudberry) and *Veronica alpina* (Alpine Speedwell) were all recorded. The path we were on took us past a large lake, where we saw Tufted Duck, and out across the splendid sub-arctic heath. Here we added a pair of Cranes. *Betula nana* (Dwarf Birch), *Salix lanata* (Woolly Willow), *Salix lapponum* (Downy Birch) and *Salix arbuscula* (Mountain Willow) were all present as well as good numbers of *Eriophorum angustifolium* (Common Cotton-grass), *Eriophorum vaginatum* (Hare's-tail Cotton-grass) and a few spikes of *Pedicularis lapponicum* (Lapland Lousewort). We took lunch in the sunshine by a lake with magnificent views in all directions.

We now continued on to Gomobu, from where we made our way down to Vaset, via Vasetvasnet Lake. Along the wooded path we saw *Potentilla crantzii* (Alpine Cinquefoil), *Saxifraga cernua* (Drooping Saxifrage) and *Corallorhiza trifida* (Coralroot Orchid), as well as hearing Yellowhammer. When we arrived in Vaset, we stopped at a lakeside cafe for refreshments, whilst waiting to be collected by our bus. The lake shore had the emerging spikes of *Pedicularis sceptrum-carolinum* (Moor King), *Rorippa amphibia* (Greater Yellow-cress) and *Spergularia rubra* (Sand Spurrey). On our way back to the hotel, we stopped to visit the replica of a tenth century Stave Church at Oset. The original was moved to a museum in Oslo early in the twentieth century. From here we returned back to Kamben.

## Day 8

Saturday 11th July

### Kamben to Oslo – Fly London Heathrow

Our last morning saw us leaving Kamben at 10am, having completed any outstanding photo requirements and saying goodbye to Elin and the staff at the hotel. Martin was our driver for the journey back to Oslo airport.

Before leaving we recorded five Cranes in the field below the hotel and a good number of Siskins and Redpolls in surrounding trees. Our route took us south-eastwards, making a short stop for lunch in Kroderen. We arrived at our destination at 1.45pm. Here, we said goodbye to Megan, Judy and Christine, who catching different flights, to Gill, who was staying on in Oslo, and Gael and Graeme who were travelling on to Sweden. The rest of the party, with Jessica and Paul checked in for our British Airways flight, BA 767, to London Heathrow.

Paul and Jessica would like to thank all the group members for their various contributions to the week, and especially Ken for providing the extensive list of Lichen species seen during the trip.

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*Neottia cordata*



*Pedicularis lapponicum*

## Species Lists

### Plants

Please Note: Nomenclature contained within this list follows the taxonomic amendments, based on DNA analysis, made by the Royal Botanic Gardens, Kew and the Missouri Botanic Garden, and following The Plant List, an internationally accepted list of vascular plant families, published and maintained by these two Institutions.

<b>Scientific name</b>	<b>Common name</b>	<b>Location</b>
<b>PTERIDOPHYTES</b>		
<b>FERNS &amp; ALLIES</b>		
<b>Lycophytes</b>		
<b>Clubmosses &amp; Quillworts</b>		
<b>Lycopodiaceae</b>		
<i>Diphasiastrum alpinum</i>	Alpine Clubmoss	Syningen
<i>Diphasiastrum tristachyum</i>	Flat-stemmed Clubmoss	Grønlie to Vaset
<i>Huperzia selago</i>	Fir Clubmoss	Syningen
<i>Lycopodium annotinum</i>	Interrupted Clubmoss	Solseter to Gol
<i>Lycopodium clavatum</i>	Stag's-horn Clubmoss	Hallingen to Brautemo
<b>Calamophytes</b>		
<b>Horsetails</b>		
<b>Equisetaceae</b>		
<i>Equisetum arvense</i>	Common Horsetail	Kamben
<i>Equisetum fluviatile</i>	Water Horsetail	Brautemo
<i>Equisetum palustre</i>	Marsh Horsetail	Skogshorn
<i>Equisetum pratense</i>	Shady Horsetail	Solseter to Gol
<i>Equisetum sylvaticum</i>	Wood Horsetail	Hallingen to Brautemo
<i>Equisetum variegatum</i>	Variegated Horsetail	Hallingen to Brautemo
<b>Eusporangiate Ferns</b>		
<b>Adder's-tongues &amp; Moonworts</b>		
<b>Ophioglossaceae</b>		
<i>Botrychium lunaria</i>	Moonwort	Syningen
<b>Leptosporangiate Ferns</b>		
<b>True Ferns</b>		
<b>Athyriaceae</b>		
<i>Athyrium alpestre (distentifolium)</i>	Alpine Lady-fern	Syningen
<i>Athyrium filix-femina</i>	Lady-fern	Solseter to Gol
<b>Cystopteridaceae</b>		
<i>Gymnocarpium dryopteris</i>	Oak Fern	Hallingen to Brautemo
<b>Dennstaedtiaceae</b>		
<i>Pteridium aquilinum</i>	Bracken	Solseter to Gol
<b>Dryopteridaceae</b>		
<i>Dryopteris dilatata</i>	Broad Buckler-fern	Hallingen to Brautemo
<i>Dryopteris filix-mas</i>	Male-fern	Gudvangen



Scientific name	Common name	Location
<b>Polypodiaceae</b> <i>Polypodium vulgare</i> agg.	<b>Polypody Family</b> Common Polypody	Solseter to Gol
<b>Thelypteridaceae</b> <i>Phegopteris connectilis</i>	<b>Marsh Fern Family</b> Beech Fern	Solseter to Gol
<b>Woodsiaceae</b> <i>Woodsia ilvensis</i>	<b>Woodsia Family</b> Oblong Woodsia	Synningen
<b>GYMNOSPERMS</b>		
<b>CONIFERS</b>		
<b>Cupressaceae</b> <i>Juniperus communis</i> <i>Juniperus communis</i> subsp. <i>alpina</i>	<b>Juniper Family</b> Juniper Dwarf Juniper	Hallingen to Brautemo Kamben
<b>Pinaceae</b> <i>Picea abies</i> subsp. <i>abies</i> <i>Pinus sylvestris</i> <i>Pinus uncinata</i> <i>Pseudotsuga menziesii</i>	<b>Pine Family</b> Norway Spruce Scots Pine Mountain Pine Douglas Fir	Common Roadsides Skutuset to Kamben Planted
<b>ANGIOSPERMS</b>		
<b>FLOWERING PLANTS</b>		
<b>Pre-Dicots</b>		
<b>Primitive Dicotyledons</b>		
<b>Nymphaeaceae</b> <i>Nymphaea alba</i>	<b>Water-lily Family</b> White Water-lily	W of Gol
<b>Eu-Dicots</b>		
<b>True Dicotyledons</b>		
<b>Amaranthaceae</b> <i>Chenopodium album</i>	<b>Pigweed Family</b> Fat-hen	Nes
<b>Apiaceae</b> <i>Angelica archangelica</i> <i>Angelica sylvestris</i> <i>Anthriscus sylvestris</i> <i>Carum carvi</i> <i>Pimpinella saxifraga</i>	<b>Carrot Family</b> Garden Angelica Wild Angelica Cow Parsley Caraway Lesser Burnet-saxifrage	Vaset Solseter to Gol (leaves) Solseter to Gol Very Common Solseter to Gol (leaves)
<b>Betulaceae</b> <i>Alnus glutinosa</i> <i>Alnus incana</i> <i>Betula nana</i> <i>Betula pendula</i> <i>Betula pubescens</i> <i>Betula pubescens</i> x <i>B. nana</i> <i>Corylus avellana</i>	<b>Birch Family</b> Alder Grey Alder Dwarf Birch Silver Birch Downy Birch Hybrid Birch Hazel	Solseter to Gol Solseter to Gol Hallingen to Brautemo Hallingen to Brautemo Kamben Skutuset Solseter to Gol
<b>Boraginaceae</b> <i>Myosotis arvensis</i>	<b>Forget-me-not Family</b> Field Forget-me-not	Kamben

Scientific name	Common name	Location
<i>Myosotis sylvatica</i>	Wood Forget-me-not	Hallingen to Brautemo
<b>Brassicaceae</b>	<b>Cabbage Family</b>	
<i>Arabidopsis arenosa</i>	Tall Rock-cress	Kamben
<i>Arabis glabra</i>	Tower Mustard	Solseter to Gol
<i>Barbarea vulgaris</i>	Common Winter-cress	Kamben
<i>Capsella bursa-pastoris</i>	Shepherd's-purse	Kamben
<i>Cardamine amara</i>	Large Bitter-cress	Hallingen to Brautemo
<i>Cardamine pratensis</i>	Lady's Smock	Skutuset to Kamben
<i>Erysimum cheiranthoides</i>	Treacle Mustard	Borgund
<i>Hesperis matronalis</i>	Dame's Violet	Roadsides
<i>Rorippa amphibia</i>	Great Yellow-cress	Vaset
<i>Thlaspi alpinum</i>	Alpine Penny-cress	Skogshorn
<i>Thlaspi arvense</i>	Field Penny-cress	Solseter to Gol
<i>Thlaspi coerulescens</i>	-	Kamben
<b>Campanulaceae</b>	<b>Bellflower Family</b>	
<i>Campanula rotundifolia</i>	Harebell	Skogshorn
<b>Caprifoliaceae</b>	<b>Honeysuckle Family</b>	
<i>Knautia arvensis</i>	Field Scabious	Nes
<i>Linnaea borealis</i>	Twin-flower	Hallingen to Brautemo
<i>Lonicera caerulea</i>	Blue-berried Honeysuckle	Solseter to Gol
<i>Valeriana sambucifolia</i>	Elder-leaved Valerian	Kamben
<b>Caryophyllaceae</b>	<b>Pink Family</b>	
<i>Arenaria serpyllifolia</i>	Thyme-leaved Sandwort	Solseter to Gol
<i>Cerastium arvense</i>	Field Mouse-ear	Kamben
<i>Cerastium cerastoides</i>	Starwort Mouse-ear	Grønlie to Vaset
<i>Sagina procumbens</i>	Procumbent Pearlwort	Nes
<i>Silene acaulis</i>	Moss Campion	Skogshorn
<i>Silene dioica</i>	Red Campion	Kamben
<i>Silene latifolia</i>	White Campion	Hallingen to Brautemo
<i>Silene rupestris</i>	Rock Catchfly	Solseter to Gol
<i>Silene vulgaris</i>	Bladder Chapion	Solseter to Gol
<i>Spergula arvensis</i>	Corn Spurrey	Nes
<i>Spergularia marina</i>	Sea Spurrey	Skutuset to Kamben
<i>Spergularia rubra</i>	Sand Spurrey	Vaset
<i>Stellaria alsine</i>	Bog Stitchwort	Hallingen to Brautemo
<i>Stellaria graminea</i>	Lesser Stitchwort	Solseter to Gol
<i>Stellaria media</i>	Chickweed	Solseter to Gol
<i>Stellaria nemorum</i>	Wood Stitchwort	Skutuset to Kamben
<b>Celastraceae</b>	<b>Spindle Family</b>	
<i>Parnassia palustris</i>	Grass-of-Parnassus	Skutuset to Kamben
<b>Compositae (Asteraceae)</b>	<b>Daisy Family</b>	
<i>Achillea millefolium</i>	Yarrow	Hallingen to Brautemo
<i>Antennaria dioica</i>	Mountain Everlasting	Hallingen to Brautemo
<i>Artemisia vulgaris</i>	Mugwort	Bogund
<i>Cirsium arvense</i>	Creeping Thistle	Gol
<i>Cirsium heterophyllum</i>	Melancholy Thistle	Solseter to Gol

Scientific name	Common name	Location
<i>Cirsium palustre</i>	Marsh Thistle	Kamben
<i>Cirsium vulgare</i>	Spear Thistle	Solseter to Gol
<i>Erigeron acris</i>	Blue Fleabane	Skutuset to Kamben
<i>Erigeron borealis</i>	Alpine Fleabane	Skutuset to Kamben
<i>Erigeron humilis</i>	Arctic Alpine Fleabane	Skutuset to Kamben
<i>Erigeron uniglumis</i>	One-flowered Fleabane	Skutuset to Kamben
<i>Gnaphalium norvegicum</i>	Highland Cudweed	Kamben
<i>Gnaphalium supinum</i>	Dwarf Cudweed	Skutuset to Kamben
<i>Gnaphalium sylvaticum</i>	Heath Cudweed	Skutuset to Kamben
<i>Hieracium alpinum</i> agg.	Alpine Hawkweed	Skutuset to Kamben
<i>Lapsana communis</i>	Nipplewort	Solseter to Gol
<i>Leontodon hispidus</i>	Rough Hawkbit	Solseter to Gol
<i>Leucanthemum vulgare</i>	Ox-eye Daisy	Solseter to Gol
<i>Matricaria discoidea</i>	Pineapple Weed	Solseter to Gol
<i>Petasites frigidus</i>	Arctic Butterbur	Hallingen to Brautemo
<i>Pilosella lactucella</i>	-	Kamben
<i>Senecio vulgaris</i>	Groundsel	Solseter to Gol
<i>Solidago virgaurea</i>	Goldenrod	Kamben
<i>Tanacetum vulgare</i>	Tansy	Solseter to Gol
<i>Tussilago farfara</i>	Colt's-foot	Hallingen to Brautemo
<b>Crassulaceae</b>	<b>Stonecrop Family</b>	
<i>Sedum acre</i>	Biting Stonecrop	Borgund
<i>Sedum annuum</i>	Annual Stonecrop	Storefjell
<i>Sedum roseum</i>	Roseroot	Flåm Railway
<i>Sedum sexangulare</i>	Tasteless Stonecrop	Haugastol station
<i>Sedum spurium</i>	Caucasian Stonecrop	Planted Gol
<i>Sedum telephium</i> subsp. <i>maximum</i>	Orpine	Solseter to Gol
<i>Sedum villosum</i>	Hairy Stonecrop	Hallingen to Brautemo
<b>Ericaceae</b>	<b>Heath family</b>	
<i>Andromeda polifolia</i>	Bog Rosemary	Hallingen to Brautemo
<i>Arctostaphylos uva-ursi</i>	Bearberry	Solseter to Gol
<i>Arctous alpina</i>	Alpine Bearberry	Syningen
<i>Calluna vulgaris</i>	Heather	Hallingen to Brautemo
<i>Empetrum nigrum</i>	Crowberry	Hallingen to Brautemo
<i>Harrimanella (Cassiope) hypnoides</i>	Matted Cassiope	Skogshorn
<i>Kalmia procumbens</i>	Trailing Azalea	Skogshorn
<i>Moneses uniflora</i>	One-flowered Wintergreen	Hallingen to Brautemo
<i>Orthilia secunda</i>	Nodding Wintergreen	Hallingen to Brautemo
<i>Phyllodoce caerulea</i>	Blue or Mountain Heath	Hallingen to Brautemo
<i>Pyrola minor</i>	Common Wintergreen	Hallingen to Brautemo
<i>Pyrola norvegica</i>	Norwegian Wintergreen	Solseter to Gol
<i>Vaccinium myrtillus</i>	Bilberry	Kamben
<i>Vaccinium oxycoccos</i>	Cranberry	Hallingen to Brautemo
<i>Vaccinium uliginosum</i>	Bog Whortleberry	Hallingen to Brautemo
<i>Vaccinium vitis-idaea</i>	Cowberry	Hallingen to Brautemo
<b>Gentianaceae</b>	<b>Gentian Family</b>	
<i>Gentiana purpurea</i>	Purple Gentian	Skogshorn
<b>Geraniaceae</b>	<b>Geranium Family</b>	
<i>Geranium pratense</i>	Meadow Crane's-bill	Roadsides

Scientific name	Common name	Location
<i>Geranium sylvaticum</i>	Wood Crane's-bill	Kamben
<b>Hypericaceae</b>	<b>St. John's-wort Family</b>	
<i>Hypericum maculatum</i>	Imperforate St. John's-wort	Solseter to Gol
<b>Lamiaceae</b>	<b>Dead-nettle Family</b>	
<i>Ajuga pyramidalis</i>	Pyramidal Bugle	Hallingen to Brautemo
<i>Ajuga reptans</i>	Bugle	Hallingen to Brautemo
<i>Galeopsis tetrahit</i>	Common Hemp-nettle	Solseter to Gol
<i>Lamium album</i>	White Dead-nettle	
<i>Prunella vulgaris</i>	Selfheal	Solseter to Gol
<i>Thymus polytrichus</i>	Wild Thyme	Solseter to Gol
<b>Leguminosae (Fabaceae)</b>	<b>Pea Family</b>	
<i>Anthyllis vulneraria</i> agg.	Kidney-vetch	Grønlie to Vaset
<i>Astragalus alpinus</i>	Alpine Milk-vetch	Skutuset to Kamben
<i>Lathyrus pratensis</i>	Meadow Vetchling	Kamben
<i>Lotus corniculatus</i>	Bird's-foot Trefoil	Solseter to Gol
<i>Lupinus polyphyllus</i>	Large-leaved Lupin	Roadsides
<i>Trifolium medium</i>	Zigzag Clover	Solseter to Gol
<i>Trifolium pratense</i>	Red Clover	Kamben
<i>Trifolium repens</i>	White Clover	Kamben
<i>Vicia sepium</i>	Bush Vetch	Kamben
<i>Vicia sylvatica</i>	Wood Vetch	Solseter to Gol
<b>Lentibulariaceae</b>	<b>Bladderwort Family</b>	
<i>Pinguicula vulgaris</i>	Common Butterwort	Hallingen to Brautemo
<b>Menyanthaceae</b>	<b>Bogbean Family</b>	
<i>Menyanthes trifoliata</i>	Bogbean	Hallingen to Brautemo
<b>Onagraceae</b>	<b>Willowherb Family</b>	
<i>Epilobium anagallidifolium</i>	Alpine Willowherb	Skutuset to Kamben
<i>Epilobium (Chamerion) angustifolium</i>	Rosebay Willowherb	Kamben
<i>Epilobium brunnescens</i>	New Zealand Willowherb	Hallingen to Brautemo
<i>Epilobium hirsutum</i>	Hairy Willowherb	Flâm Railway
<i>Epilobium montanum</i>	Broad-leaved Willowherb	Flâm Railway
<b>Orobanchaceae</b>	<b>Broomrape Family</b>	
<i>Bartsia alpina</i>	Alpine Bartsia	Hallingen to Brautemo
<i>Melampyrum pratense</i>	Common Cow-wheat	Hallingen to Brautemo
<i>Melampyrum sylvaticum</i>	Small Cow-wheat	Hallingen to Brautemo
<i>Pedicularis lapponica</i>	Lapland Lousewort	Skogshorn
<i>Pedicularis palustris</i>	Marsh Lousewort	Hallingen to Brautemo
<i>Pedicularis sceptum-carolinum</i>	Moor King	Vaset (in bud)
<i>Rhinanthus</i> agg.	Yellow Rattle	Kamben
<b>Oxalidaceae</b>	<b>Wood-sorrel Family</b>	
<i>Oxalis acetosella</i>	Wood-sorrel	Solseter to Gol (leaves)
<b>Papaveraceae</b>	<b>Poppy Family</b>	
<i>Papaver nudicaule</i>	Iceland Poppy	Haugastøl (naturalised)

Scientific name	Common name	Location
<b>Plantaginaceae</b>	<b>Plantain Family</b>	
<i>Digitalis purpurea</i>	Foxglove	Flåm Railway
<i>Linaria vulgaris</i>	Common Toadflax	Nes
<i>Plantago major</i>	Greater Plantain	Hallingen to Brautemo
<i>Plantago media</i>	Hoary or Lamb's-tail Plantain	Borgund
<i>Veronica alpina</i>	Alpine Speedwell	Hallingen to Brautemo
<i>Veronica chamaedrys</i>	Germander Speedwell	Hallingen to Brautemo
<i>Veronica fruticans</i>	Rock Speedwell	Syningen tp Kamben
<i>Veronica officinalis</i>	Heath Speedwell	Solseter to Gol
<i>Veronica scutellata</i>	Marsh Speedwell	Hallingen to Brautemo
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell	Hallingen to Brautemo
<b>Polemoniaceae</b>	<b>Jacob's-ladder Family</b>	
<i>Polemonium caeruleum</i>	Jacob's-ladder	Roadsides
<b>Polygonaceae</b>	<b>Knotweed Family</b>	
<i>Oxyria digyna</i>	Mountain Sorrel	Flåm Railway
<i>Persicaria vivipara</i>	Alpine Bistort	Kamben
<i>Rumex acetosa</i>	Sorrel	Kamben
<i>Rumex acetosella</i>	Sheep's Sorrel	Hallingen to Brautemo
<i>Rumex crispus</i>	Curled Dock	Kamben
<i>Rumex longifolius</i>	Northern Dock	Nes
<b>Primulaceae</b>	<b>Primrose Family</b>	
<i>Trientalis europaea</i>	Chickweed Wintergreen	Kamben
<b>Ranunculaceae</b>	<b>Buttercup Family</b>	
<i>Aconitum septentrionale</i>	Northern Wolf's-bane	Kamben
<i>Caltha palustris</i>	Kingcups	Solseter to Gol
<i>Ranunculus acris</i>	Meadow Buttercup	Kamben
<i>Ranunculus glacialis</i>	Glacier Crowfoot	Skogshorn
<i>Ranunculus reptans</i>	Creeping Spearwort	Brautemo
<i>Ranunculus repens</i>	Creeping Buttercup	Hallingen to Brautemo
<i>Thalictrum alpinum</i>	Alpine Meadow Rue	Hallingen to Brautemo
<i>Trollius europaeus</i>	Globeflower	Brautemo
<b>Rosaceae</b>	<b>Rose Family</b>	
<i>Alchemilla alpina</i>	Alpine Lady's-mantle	Hallingen to Brautemo
<i>Alchemilla filicaulis</i>	a Lady's-mantle	Kamben
<i>Amelanchier ovalis</i>	Juneberry	Solseter to Gol
<i>Comarum palustre</i>	Marsh Cinquefoil	Solseter to Gol (leaves)
<i>Filipendula ulmaria</i>	Meadowsweet	Kamben
<i>Filipendula vulgaris</i>	Dropwort	Kamben
<i>Fragaria vesca</i>	Wild Strawberry	Hallingen to Brautemo
<i>Geum rivale</i>	Water Avens	Kamben
<i>Potentilla anserina</i>	Silverweed	Solseter to Gol
<i>Potentilla argentea</i>	Hoary Cinquefoil	Nes
<i>Potentilla crantzii</i>	Alpine Cinquefoil	Grønlie to vaset
<i>Potentilla erecta</i>	Tormentil	Hallingen to Brautemo
<i>Potentilla intermedia</i>	Russian Cinquefoil	Hallingen to Brautemo
<i>Potentilla norvegica</i>	Ternate-leaved Cinquefoil	Nes

Scientific name	Common name	Location
<i>Potentilla tabernaemontani</i>	Spring Cinquefoil	Kamben
<i>Rubus chamaemorus</i>	Cloudberry	Hallingen to Brautemo
<i>Rubus idaeus</i>	Raspberry	Solseter to Gol
<i>Rubus saxatilis</i>	Stone Bramble	Hallingen to Brautemo
<i>Sibbaldia procumbens</i>	Sibbaldia	Skogshorn
<i>Sorbus aria</i>	Common Whitebeam	Solseter to Gol
<i>Sorbus aucuparia</i>	Rowan	Hallingen to Brautemo
<b>Rubiaceae</b>	<b>Bedstraw Family</b>	
<i>Galium boreale</i>	Northern Bedstraw	Hallingen to Brautemo
<i>Galium saxatile</i>	Heath Bedstraw	Solseter to Gol
<b>Salicaceae</b>	<b>Willow &amp; Poplar Family</b>	
<i>Populus tremula</i>	Aspen	Solseter to Gol
<i>Salix arbuscula</i>	Mountain Willow	Hallingen to Brautemo
<i>Salix arbuscula x S. lapponum</i>	a Hybrid Willow	Grønlie to Vaset
<i>Salix caprea</i>	Goat Willow	Solseter to Gol
<i>Salix herbacea</i>	Dwarf Willow	Syningen
<i>Salix lanata</i>	Woolly Willow	Hallingen to Brautemo
<i>Salix lanata x S. lapponum</i>	a Hybrid Willow	Skutuset to Kamben
<i>Salix lapponum</i>	Downy Willow	Hallingen to Brautemo
<i>Salix pentandra</i>	Bay Willow	Hallingen to Brautemo
<i>Salix phylicifolia</i>	Tea-leaved Willow	Hallingen to Brautemo
<b>Saxifragaceae</b>	<b>Saxifrage Family</b>	
<i>Saxifraga aizoides</i>	Yellow Mountain Saxifrage	Skutuset to Kamben (leaves)
<i>Saxifraga cernua</i>	Drooping Saxifrage	Vaset
<i>Saxifraga cespitosa</i>	Tufted Saxifrage	Skutuset to Kamben
<i>Saxifraga cotyledon</i>	Pyramidal Saxifrage	Flåm Railway
<i>Saxifraga stellaris</i>	Starry Saxifrage	Hallingen to Brautemo
<b>Urticaceae</b>	<b>Nettle Family</b>	
<i>Urtica dioica</i>	Common Nettle	Kamben
<b>Violaceae</b>	<b>Violet Family</b>	
<i>Viola biflora</i>	Yellow Wood Violet	Skogshorn
<i>Viola canina</i>	Heath Dog Violet	Kamben
<i>Viola palustris</i>	Marsh Violet	Hallingen to Brautemo
<i>Viola riviniana</i>	Common Dog Violet	Hallingen to Brautemo
<b>Monocots</b>	<b>Monocotyledons</b>	
<b>Asparagaceae</b>	<b>Asparagus Family</b>	
<i>Convallaria majalis</i>	Lily-of-the-Valley	Solseter to Gol (leaves)
<i>Maianthemum bifolium</i>	May Lily	Kamben
<i>Polygonatum verticillatum</i>	Whorled Solomon's-seal	Hallingen to Brautemo
<b>Cyperaceae</b>	<b>Sedge Family</b>	
<i>Carex atrata</i>	Black Alpine Sedge	Syningen
<i>Carex bigelowii</i>	Stiff Sedge	Skogshorn
<i>Carex canescens</i>	White Sedge	Hallingen to Brautemo
<i>Carex capillaris</i>	Hair Sedge	Hallingen to Brautemo

Scientific name	Common name	Location
<i>Carex demissa</i>	Common Yellow-sedge	Hallingen to Brautemo
<i>Carex dioica</i>	Dioecious Sedge	Hallingen to Brautemo
<i>Carex echinata</i>	Star Sedge	Hallingen to Brautemo
<i>Cerex elata</i>	Tufted Sedge	Brautemo
<i>Carex flacca</i>	Glaucous Sedge	Kamben
<i>Carex flava</i>	Large Yellow Sedge	Solseter to Gol
<i>Carex leporina</i>	Oval Sedge	Solseter to Gol
<i>Carex limosa</i>	Bog Sedge	Hallingen to Brautemo
<i>Carex magellanica</i>	Tall Bog Sedge	Hallingen to Brautemo
<i>Carex nigra</i>	Common Sedge	Hallingen to Brautemo
<i>Carex oederi</i>	Small-fruited Yellow Sedge	Vaset
<i>Carex panicea</i>	Carnation Sedge	Syningen
<i>Carex pauciflora</i>	Few-flowered Sedge	Hallingen to Brautemo
<i>Carex rostrata</i>	Bottle Sedge	Hallingen to Brautemo
<i>Carex vaginata</i>	Sheathed Sedge	Solseter to Gol
<i>Carex vesicaria</i>	Bladder Sedge	Vaset
<i>Eriophorum angustifolium</i>	Common Cotton-grass	Hallingen to Brautemo
<i>Eriophorum scheuchzeri</i>	Scheuchzer's Cotton-grass	Hallingen to Brautemo
<i>Eriophorum vaginatum</i>	Hare's-tail Cotton-grass	Hallingen to Brautemo
<i>Trichophorum alpinum</i>	Alpine Deergrass	Hallingen to Brautemo
<i>Trichophorum cespitosum</i>	Deergrass	Hallingen to Brautemo
<b>Juncaceae</b>	<b>Rush Family</b>	
<i>Juncus alpinoarticulatus</i>	Alpine Rush	Vaset
<i>Juncus filiformis</i>	Thread Rush	Solseter to Gol
<i>Juncus trifidus</i>	Three-leaved Rush	Skutuset to Kamben
<i>Juncus triglumis</i>	Three-flowered rush	Hallingen to Brautemo
<i>Luzula pilosa</i>	Hairy Woodrush	Solseter to Gol
<i>Luzula spicata</i>	Spiked Woodrush	Skutuset to Kamben
<i>Luzula sylvatica</i>	Great Woodrush	Solseter to Gol
<b>Juncaginaceae</b>	<b>Arrowgrass Family</b>	
<i>Triglochin palustris</i>	Marsh Arrowgrass	Hallingen to Brautemo
<b>Melanthiaceae</b>	<b>Herb-Paris Family</b>	
<i>Paris quadrifolia</i>	Herb-Paris	Hallingen to Brautemo
<b>Orchidaceae</b>	<b>Orchid Family</b>	
<i>Corallorhiza trifida</i>	Coralroot Orchid	Hallingen to Brautemo
<i>Dactylorhiza fuchsii</i>	Common Spotted Orchid	Solseter to Gol
<i>Dactylorhiza incarnata</i> subsp. <i>pulchella</i>	Early Marsh Orchid	Hallingen to Brautemo
<i>Dactylorhiza (Coeloglossum) viridis</i>	Frog Orchid	Hallingen to Brautemo
<i>Gymnadenia conopsea</i> ssp. <i>densiflora</i>	Fragrant Orchid	Hallingen to Brautemo
<i>Neottia cordata</i>	Lesser Twayblade	Hallingen to Brautemo
<i>Platanthera bifolia</i>	Lesser Butterfly Orchid	Solseter to Gol
<b>Poaceae</b>	<b>Grass Family</b>	
<i>Agrostis stolonifera</i>	Creeping Bent	Skutuset to Kamben
<i>Alopecurus aequalis</i>	Orange foxtail	Brautemo
<i>Alopecurus geniculatus</i>	Marsh Foxtail	Vaset
<i>Alopecurus pratensis</i>	Meadow Foxtail	Kamben
<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	Hellinggen to Brautemo

Scientific name	Common name	Location
<i>Bromopsis inermis</i>	Hungarian Brome	Borgund
<i>Brachypodium sylvaticum</i>	False Brome	Solseter to Gol
<i>Calamagrostis canescens</i>	Purple Small Reed	Solseter to Gol
<i>Calamagrostis epigeios</i>	Wood Small-reed	Solseter to Gol
<i>Dactylis glomerata</i>	Cock's-foot	Solseter to Gol
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	Kamben
<i>Deschampsia flexuosa</i>	Wavy Hair-grass	Solseter to Gol
<i>Elymus caninus</i>	Bearded Couch	Solseter to Gol
<i>Festuca filiformis</i>	Fine-leaved Sheep's Fescue	Grønlie to Vaset
<i>Festuca rubra</i> agg	Red Fescue	Solseter to Gol
<i>Lolium perenne</i>	Perennial Rye-grass	Kamben
<i>Melica nutans</i>	Mountain Melick	Hellingen to Brautemo
<i>Millium effusum</i>	Wood Millet	Solseter to Gol
<i>Molinia caerulea</i>	Purple Moor-grass	Solseter to Gol
<i>Nardus stricta</i>	Mat-grass	Solseter to Gol
<i>Phleum alpinum</i>	Alpine Cat's-tail	Hellingen to Brautemo
<i>Poa alpina</i>	Alpine Meadow-grass	Kamben
<i>Poa annua</i>	Annual Meadow-grass	Hellingen to Brautemo
<i>Poa pratensis</i>	Smooth Meadow-grass	Skutuset to Kamben

**Tofieldiaceae***Tofieldia pusilla***Scottish Asphodel Family**

Scottish Asphodel

Hallingen to Brautemo

**LICHENS:**

<i>Alectoria c.f. sarmentosa</i>	-	Common
<i>Alectoria ochroleuca</i>	-	Skutuset to Kamben
<i>Baeomyces rufus</i>	-	Hellingen to Brautemo
<i>Bryoria fuscescens</i>	-	Common
<i>Cetraria cucullata</i>	-	Solseter to Gol
<i>Cetraria icelandica</i>	Iceland Moss	Common
<i>Cetraria juniperina</i>	-	Skutuset to Kamben
<i>Cetraria nivalis</i>	-	Skutuset to Kamben
<i>Cetraria pinastri</i>	-	Skutuset to Kamben
<i>Cetraria sepincola</i>	-	Skutuset to Kamben
<i>Cladonia bellidiflora</i>	-	Skogshorn
<i>Cladonia coccifera</i>	-	Common
<i>Cladonia rangiferina</i>	-	Common
<i>Cladonia stellaris</i>	-	Common
<i>Diploschistes scruposus</i>	-	Skutuset to Kamben
<i>Haematomma ochroleucum</i>	-	Solseter to Gol
<i>Hypogymnia physodes</i>	-	Common
<i>Hypogymnia vittata</i>	-	Common
<i>Icmadophila ericetorum</i>	-	Skogshorn
<i>Lecanora polytropa</i>	-	Throughout
<i>Lecanora sysymmicta</i>	-	Kamben
<i>Lecanora varia</i>	-	Kamben
<i>Ochrolactia frigida</i>	-	Skogshorn
<i>Ophioparma ventosum</i>	-	Skutuset to Kamben
<i>Parmelia centrifuga</i>	-	Common
<i>Parmelia conspersa</i>	-	Solseter to Gol
<i>Parmelia exasperata</i>	-	Solseter to Gol
<i>Parmelia omphalodes</i>	-	Day 4



Scientific name	Common name	Location
<i>parmelia saxatilis</i>	-	Common
<i>Parmelia sulcata</i>	-	Common
<i>Parmeliopsis ambigua</i>	-	Hellinggen to Brautemo
<i>Parmeliopsis hyperopta</i>	-	Hellinggen to Brautemo
<i>Peltigera aphthosa</i>	-	Common
<i>Peltigera polydactyla</i>	-	Solseter to Gol
<i>Platismatia glauca</i>	-	Common
<i>Protoparmelia badia</i>	-	Skutuset to Kamben
<i>Pseudevernia furfuracea</i>	-	Common
<i>Rhizocarpon geographicum</i>	The Map Lichen	Common
<i>Solorina crocea</i>	-	Skutuset to Kamben
<i>Sphaerophorus globosus</i>	-	Skutuset to Kamben
<i>Tephromela atra</i>	-	Day 4
<i>Thamnolia vermicularis</i>	-	Skogshorn
<i>Umbilicaria c.f. deusta</i>	-	Hellinggen to Brautemo
<i>Umbilicaria c.f. hyperborea</i>	-	Hellinggen to Brautemo
<i>Umbilicaria polyphylla</i>	-	Skutuset to Kamben
<i>Usnea filipendula</i>	-	Solseter to Gol
<i>Usnea subfloridana</i>	-	Hellinggen to Brautemo

## Birds (✓=recorded not counted; H = heard only; LO = Leader Only)

	Common Name	Scientific Name	July									
			4	5	6	7	8	9	10	11		
1	Mute Swan	<i>Cygnus olor</i>	✓									
2	Mallard	<i>Anas platyrhynchos</i>				✓				✓		
3	Eurasian Teal	<i>Anas crecca</i>								✓		
4	Tufted Duck	<i>Aythya fuligula</i>								✓		
5	Long-tailed Duck	<i>Clangula hyemalis</i>				✓						
6	Common Goldeneye	<i>Bucephala clangula</i>				✓						
7	Red-breasted Merganser	<i>Mergus serrator</i>			✓	✓					✓	
8	Western Capercaillie	<i>Tetrao urogallus</i>		✓								
9	Rock Ptarmigan	<i>Lagopus muta</i>							✓			
10	Willow Ptarmigan	<i>Lagopus lagopus</i>							✓			
11	Red-throated Loon (Diver)	<i>Gavia stellata</i>							LO			
12	Grey Heron	<i>Ardea cinerea</i>									✓	
13	Common Crane	<i>Grus grus</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	
14	Eurasian Oystercatcher	<i>Haematopus ostralegus</i>				✓						
15	European Golden Plover	<i>Pluvialis apricaria</i>							H			
16	Eurasian Woodcock	<i>Scolopax rusticola</i>			✓							
17	Eurasian Curlew	<i>Numenius arquata</i>	H	✓	H							
18	Common Sandpiper	<i>Actitis hypoleucos</i>				✓						
19	Mew (Common) Gull	<i>Larus canus</i>				✓					✓	
20	European Herring Gull	<i>Larus argentatus</i>				✓						
21	Black Guillemot	<i>Cephus grylle</i>				✓						
22	Common Pigeon	<i>Columba livia Feral</i>	✓			✓						
23	Common Wood Pigeon	<i>Columba palumbus</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	
24	Common Cuckoo	<i>Cuculus canorus</i>	H	H	H		H	H	H			
25	Common Swift	<i>Apus apus</i>	✓	✓	✓		✓	✓	✓	✓	✓	
26	Great-spotted Woodpecker	<i>Dendrocopos major</i>			✓							
27	Common Kestrel	<i>Falco tinnunculus</i>	✓									
28	Siberian Jay	<i>Perisoreus infaustus</i>			✓							

	Common Name	Scientific Name	July							
			4	5	6	7	8	9	10	11
29	Eurasian Magpie	<i>Pica pica</i>				✓			✓	✓
30	Western Jackdaw	<i>Corvus monedula</i>	✓							✓
31	Hooded Crow	<i>Corvus cornix</i>	✓	✓	✓	✓	✓	✓	✓	✓
32	Northern Raven	<i>Corvus corax</i>							✓	✓
33	Coal Tit	<i>Parus ater</i>		H	H			✓	✓	✓
34	Eurasian Blue Tit	<i>Cyanistes caeruleus</i>			H					✓
35	Great Tit	<i>Parus major</i>			H				✓	✓
36	Barn Swallow	<i>Hirundo rustica</i>	✓	✓	✓	✓	✓	✓	✓	✓
37	Common House Martin	<i>Delichon urbicum</i>	✓	✓	✓	✓	✓	✓	✓	✓
38	Willow Warbler	<i>Phylloscopus trochilus</i>		H	H			✓	✓	✓
39	Common Chiffchaff	<i>Phylloscopus collybita</i>		H					✓	
40	Wood Warbler	<i>Phylloscopus sibilatrix</i>		H					✓	
41	Lesser Whitethroat	<i>Sylvia curruca</i>							✓	✓
42	Goldcrest	<i>Regulus regulus</i>			H					
43	Eurasian Wren	<i>Troglodytes troglodytes</i>			H					H
44	Common Blackbird	<i>Turdus merula</i>	✓	✓	✓	✓	H	✓		✓
45	Fieldfare	<i>Turdus pilaris</i>	✓	✓	✓	✓	✓	✓	✓	✓
46	Redwing	<i>Turdus iliacus</i>								✓
47	Song Thrush	<i>Turdus philomelos</i>		H	H		H			H
48	Mistle Thrush	<i>Turdus viscivorus</i>	✓		✓					
49	Spotted Flycatcher	<i>Muscicapa striata</i>			✓					✓
50	European Robin	<i>Erithacus rubecula</i>		H	H					
51	Bluethroat	<i>Luscinia svecica</i>							✓	
52	Northern Wheatear	<i>Oenanthe oenanthe</i>							✓	✓
53	House Sparrow	<i>Passer domesticus</i>	✓	✓	✓	✓	✓	✓	✓	✓
54	Western Yellow Wagtail	<i>Motacilla flava thunbergii</i>								✓
55	Grey Wagtail	<i>Motacilla cinerea</i>								✓
56	White Wagtail	<i>Motacilla alba alba</i>	✓	✓	✓	✓	✓	✓	✓	✓
57	Meadow Pipit	<i>Anthus pratensis</i>							✓	✓
58	Tree Pipit	<i>Anthus trivialis</i>			✓					
59	Common Chaffinch	<i>Fringilla coelebs</i>	✓	✓	✓	✓	✓	✓	✓	✓
60	Eurasian Bullfinch	<i>Pyrrhula pyrrhula</i>			✓					
61	European Greenfinch	<i>Chloris chloris</i>	✓	✓	✓				✓	✓
62	Twite	<i>Linaria flavirostris</i>								✓
63	Common Redpoll	<i>Acanthis flammea</i>								✓
64	Red Crossbill	<i>Loxia curvirostra</i>			H					
65	Eurasian Siskin	<i>Spinus spinus</i>	✓	✓	✓				✓	✓
66	Yellowhammer	<i>Emberiza citrinella</i>		H	✓			✓	H	H

## Mammals (D = droppings)

1	Harbour Porpoise	<i>Phocoena phocoena</i>				✓				
2	Red Deer	<i>Cervus elaphus</i>					D	✓		
3	Elk	<i>Alces alces</i>		D			D			
4	Mountain Hare	<i>Lepus timidus</i>						✓		
5	Red Squirrel	<i>Sciurus vulgaris</i>			✓				✓	

## Amphibians and Reptiles (T = tadpoles)

1	Common Frog	<i>Rana temporaria</i>						✓	T	
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	Common Name	Scientific Name	July								
			4	5	6	7	8	9	10	11	

## Butterflies:

1	Large White	<i>Pieris brassicae</i>								✓	
2	Small White	<i>Pieris rapae</i>		✓							
3	Dark-veined White	<i>Pieris bryoniae</i>									✓
4	Sooty Copper	<i>Lycaena tityrus</i>								✓	
5	Idas Blue	<i>Plebejus idas</i>								✓	
6	Red Admiral	<i>Vanessa atalanta</i>		✓							✓
7	Small Tortoiseshell	<i>Aglais urticae</i>		✓						✓	
8	Dark Green Fritillary	<i>Argynnis aglaja</i>									✓
9	Bog Fritillary	<i>Boloria eunomia</i>		✓							
10	Pearl-bordered Fritillary	<i>Boloria euphrosyne</i>		✓						✓	
11	Small Heath	<i>Coenonympha pamphilus</i>		✓	✓						
12	Dewy Ringlet	<i>Erebia pandrose</i>								✓	
13	Northern Wall Brown	<i>Lasiommata petropolitana</i>			✓						

## Moths

	Micros.										
1	Plume Moth	<i>Hellinsia osreodactylus</i>	F							F	
	Macros. (F = field record; T = trap)										
1	Red Carpet	<i>Xanthorhoe decoloraria</i>									T
2	Silver-ground Carpet	<i>Xanthorhoe montanata</i>									F
3	Latticed Heath	<i>Chiasmia clathrata</i>	F		F						
4	Common Heath	<i>Ematurga atomaria</i>			F						
5	Common White Wave	<i>Cabera pusaria</i>			F						
6	Sallow Kitten	<i>Furcula furcula</i>		T							
7	Shears	<i>Hada plebeja</i>									T

## Other invertebrates:

1	Cleg-fly	<i>Haematopota pluvialis</i>		✓							
2	Wood Ant	<i>Formica rufa</i>		✓	✓					✓	
3	White-tailed Bumblebee	<i>Bombus lucorum</i>								✓	
4	Buff-tailed Bumblebee	<i>Bombus terrestris</i>			✓			✓	✓		
5	Bilberry Bumblebee	<i>Bombus monticola</i>						✓	✓		
6	Violet Ground-beetle	<i>Carabus violaceus</i>						✓	✓		
7	Rose Chafer	<i>Cetonia aurata</i>			✓						
8	Soldier Beetle	<i>Cantharis rustica</i>			✓						
9	Seven-spot Ladybird	<i>Coccinella 7-punctata</i>								✓	



Veronica fruticans