

# Gotland – Wildlife at Leisure 2018

Lead by Ian Bennallick and Fiona Dunbar

## A Greentours Trip Report

Daily report by Fiona Dunbar, species lists by Ian Bennallick

### Sunday 27th May

#### Arrival

All of the group bar Jamie and Joanne met up without mishap at Stockholm for the 50-minute hop in a twin propeller plane to Visby, the gothic capital of Gotland. We collected our minibuses, filled them with petrol and were at the lovely Suderbys 20 minutes later. It was our first chance to see large areas of purple Viper's-bugloss (*Echium vulgare*), pink Bloody Cranesbill (*Geranium sanguineum*) and Columbine (*Aquilegia vulgaris*) in various colour forms, which were to become familiar roadside sights. After getting into our rooms and freshening up, we had an excellent meal after which Ian went over the basics of the tour and the itinerary for the next day. Behind the rooms, the edge of the hotel lawns are marked by a row of Ash trees; beyond that was a wheat field, and the next field over was a sea of red poppies. The wheat field has a huge Viking standing stone in it.



### Day 1 Monday 28<sup>th</sup> May      Gannarve boat setting, Närsholmen peninsula, Gålrum boat setting and Ardre Church

After a lovely Swedish style buffet breakfast (with excellent Swedish coffee) we already were getting excited – a very vocal pair of Oystercatchers were wandering the lawns industriously with three downy chicks. Phil photographed an Icterine Warbler and there were numerous Fieldfares and Swifts.

Jamie and Joanne were collected from their morning flight and made an admirably fast turn-around so we were on our way by 10 am as planned. The weather was with us, and we had the first scenic drive on Gotland, this one with the calm sea sparkling on our left for part of the journey. Our first stop – the stunning late Bronze Age boat setting at Gannarve. A boat setting is a Viking style of burial, with elongated erratic boulders set upright in the shape of a long boat to mark the grave. The stones increase in size at the prow and stern. This one had been ploughed at some point in history, but excavations found the rounded holes where the stones had originally sat and the boulders were painstakingly replaced. At 34 m long, it has the most wonderful view out to the twin islands of Lille Karlsö and Stora Karlsö.

The short flowery turf was dotted with big patches of Common Rock-rose (*Helianthemum nummularium*), Nottingham Catchfly (*Silene nutans*), silvery-furred seed heads of Small Pasqueflower (*Pulsatilla pratensis*)

and purple and blue forms of Alkanet (*Anchusa officinalis*). The meat-red of Hound's-tongue (*Cynoglossum officinale*) was by the stile.

Our next and main stop of the day was the wonderful coastal meadows around the peninsula of Närsholmen. The extensive, unfenced grassy pasturelands have a converging pattern of shingle ridges caused by wave refraction when the island, on which the lighthouse now stands, was lifted further out of the sea several hundred years ago by isostatic rise (i.e. the land rising after the weight of melting ice fields is lifted). Drifts of Small Pasqueflower seed-heads grow on the tops of the ridges, emphasising them all the way over to the red and white light house in the distance. Nesting Arctic Terns and Avocets could be seen on stony spits. The damper, lower-lying areas were where we found Early-purple Orchids (*Orchis mascula*) and thousands of pale-yellow or pink Elder-flowered Orchids (*Dactylorhiza sambucina*), the latter over. Deep-pink Bird's-eye Primrose (*Primula farinosa*) and Wild Strawberry (*Fragaria vesca*) bloomed as well as Twayblade (*Neottia ovata*) and Barberry (*Berberis vulgaris*). There were numerous Common Blues as well as Grizzled Skipper, Small Copper and a couple of Brimstones. Heath Dog-violet (*Viola canina*) was scattered, and we had good views of two noisy Cuckoos.



Fi drove her van, which held the picnic supplies, round a grassy track to a picnic table where we had the most scenic of lunches in splendid isolation. It was quickly assembled as everyone pitched in to lay out the bread rolls, cheeses, salads, pickled herring, fresh cinnamon cakes etc. We had some lovely patches of flowering Small Pasqueflower right by our lone wooden table. In front of us three Barnacle Geese rested on the beach; a little later we watched long skeins of them fly over the gnarled woodlands. These small and beautiful geese only began using Gotland as a staging post in the 1920s; before that their migration was more easterly. Now they can number 40,000 in May. After the picnic, Ian lead us round to a wetter area which was thick with particularly colourful Water Avens (*Geum rivale*). Special plants included gorgeous pink Mountain Everlasting (*Antennaria dioica*), a single Burnt-tip Orchid (*Orchis ustulata*), huge Early-purple Orchids and a pristine pair of Elder-flowered Orchids, one each of the yellow and pink form. A Snipe drummed nearby. We meandered over towards the picturesque lighthouse, where there were some more lovely tufts of flowering Small Pasqueflower, a single Harebell (*Campanula rotundifolia*) and deep-pink Sticky Catchfly (*Lychnis viscaria*). Finally we had to drag ourselves away – we had other stops to make yet. But we did not get far. First, we helped a car which had jammed its boot shut on a child's sock – well done Linda for suggesting the way of getting the door open! – and then north of Närsholmen we had to stop for the stand of Military Orchids (*Orchis militaris*) by the track. It was another superb coastal meadow, full of Meadow Saxifrage (*Saxifraga granulata*) and lots of Early-purple and Green-winged Orchids (*Orchis morio*). Joanne's keen eyes found a stand of Burnt-tip Orchids and also Frog Orchid (*Coeloglossum viride*) – around a dozen in the end. A few of us saw a Black Woodpecker flash by being chased by Jays, his red head glowing in the sun, and two more Cuckoos at least. Greater Yellow-Rattle (*Rhinanthus serotinus*) and Lesser Spearwort (*Ranunculus flammula*) were some of the other good species seen.



Finally we were on our way. A sunlit swathe of *Lychnis viscaria* drew us in to Gålrum, where we also found Maiden Pink (*Dianthus deltoides*) amongst the numerous late Bronze Age boat settings and early Bronze Age cairns. A Viking standing stone, which would have been carved with the deeds of the honoured dead, stands amongst the scattered trees and boat settings.

After a very exciting stop to watch a White-tailed Eagle being mobbed by a Buzzard and some corvids we made our last stop of the day at Ardre, where we forewent the church meadow having found so much already, where a Viking standing stone has stood the test of time,

still retaining its carvings on one side – probably because it fell over, protecting it from the weather. It stands only a few hundred yards from Ardre church, one of many Gothic churches dating back to the ‘golden age’ of Gotland; a nice juxtaposition.

## Day 2 Tuesday 29<sup>th</sup> May

### Tingstäde Church, Kallgatburg, Botvaldevik and Gothem Church, near Fjäle (*Orchis spitzelii* site)

A great start to the day at Tingstäde Church, with a 12<sup>th</sup> century font and superb 13<sup>th</sup> and 14<sup>th</sup> century murals.



Kallgatburg harbours a large stand of Yew and a marsh with flush-fen vegetation. We were glad of the shade from the areas of mixed woodland on this morning's walk and were soon enjoying May Lily (*Maianthemum bifolium*), Angular Solomon's-seal (*Polygonatum odoratum*), Wood Crane's-bill (*Geranium sylvaticum*) and Lily-of-the-valley (*Convallaria majalis*). Heather (*Calluna vulgaris*) indicates that soils here are not as calcareous as the rest of the island. The sun brought out a good range of butterflies - Glanville, Marsh and Heath Fritillaries, Swallowtails, Grizzled Skipper, Brimstone, Black-veined and Wood White, and Green Hairstreak.

On open areas which lie on a belt of dense water-retaining marlstone, which are usually wet (though dry this season), we found Common Butterwort (*Pinguicula vulgaris*) and the much rarer white Alpine Butterwort (*Pinguicula alpina*), various *Carex* spp. including Tawny Sedge (*Carex hostiana*) and Large Yellow-sedge (*Carex flava*) and Bird's-eye Primrose. Soft Downy-rose (*Rosa villosa* ssp. *mollis*) was in fine form and covered in large pink flowers. A Common Redstart perched on a post, and Cuckoo called continuously. Broad-bodied Chaser dragonflies were active on a small stream, and the wooden walkways over the wetter areas were edged with Bird's-eye Primrose. Yellow Dragon's-teeth (*Tetragonolobus martitimus*) formed large mats covered with large yellow pea-like flowers amongst tufts of Broad-leaved Cottongrass (*Eriophorum latifolium*), with Devil's-bit Scabious (*Succisa pratensis*) and Mountain Everlasting.

Many Hepatica (*Hepatica nobilis*) plants were seen, a few still in flower, and German Asphodel (*Tofieldia calyculata*) too. So many flowers in this rich habitat! Viper's-grass (*Scorzonera humilis*), Cowberry (*Vaccinium vitis-idea*), Cloudberry (*Rubus chamaemorus*) and Twayblade were the background to Lesser Butterfly-orchids (*Platanthera bifolia*) and a couple of spikes of Fly Orchid (*Ophrys insectifera*). The next woodland stretch had Yellow Wintergreen (*Pyrola chlorantha*), Common Dog-violet (*Viola riviniana*) and Fly Honeysuckle (*Lonicera xylosteum*), but nothing could top the numerous clumps of Lady's-slipper (*Cypripedium calceolus*) orchids in dappled shade and perfect condition. This large colony was reportedly only discovered in 1950.

We retraced our steps for a welcome picnic on picnic benches where we had parked up. The rolls and fresh cinnamon plaits from the supermarket went very well with the green salads, beetroot salads, salamis, local cheeses etc...

The afternoon was spent on the coast north of the little-known settlement of Botvaldevik. The woods were full of hundreds, if not thousands, of Sword-leaved Helleborines (*Cephalanthera longifolia*) in glorious flower, and a few Red Helleborine (*Cephalanthera rubra*) in bud. Ian had found the hybrid between the two here in the past but none were out this year. There were also several Bird's-nest Orchids (*Neottia nidus-avis*) in good shape too. The track was edged with the most perfect Bird's-eye Primroses. Out on the heat-shimmering white, flat rocks by the sea edge, over twenty Grey Herons fished, along with a half dozen Great White Egrets. We were treated to a prolonged view of a White-tailed Eagle and a female Red-backed Shrike. Linda spotted a pair of mating Common Blue butterflies as a 'living brooch' for some considerable time and was photographed from every angle.

We drove south for a quick stop to look at Gothem Church with its splendid murals and pew ends exotically



illustrated with fantastical creatures. The last stop was further south near Fjäle, an unassuming layby, where after a few minutes searching, Dallas and Terry found half a dozen rare Alpine Orchids (*Orchis spitzelii*) under the pine trees. A few Snowdrop Windflower (*Anemone sylvestris*) were seen but as there were mozzies about, we were fairly swift in our photography!

The drive home was cross country, and very scenic, and although a little late we had an hour to freshen up before supper and the Gotland Evening, with pot-roast lamb, a Gotlandic quiz (in Swedish...) and traditional songs sung by a troubadour with a guitar.

### Day 3 Wednesday 30<sup>th</sup> May

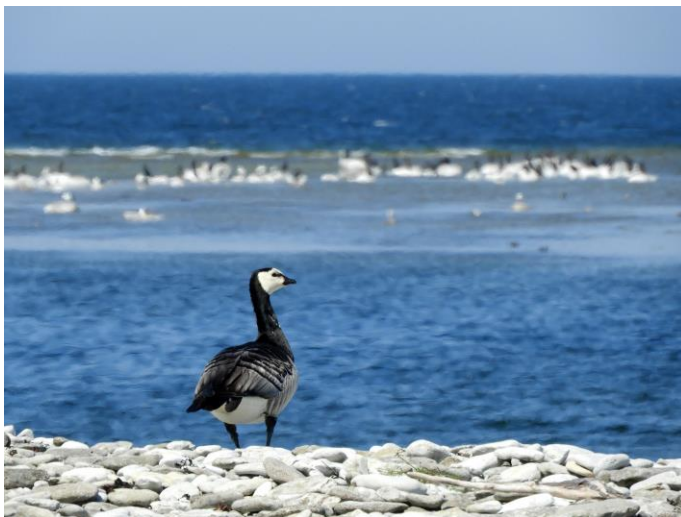
#### Stora Karlsö, Gnisvärd fishing village and Hogklint

A short drive took us to Klintehamn to catch the 30 minute ferry to the island of Stora Karlsö. Many centuries ago this island was where Gotlanders came to fish, catch sea birds and Arctic Hares, and graze sheep. What Fi took to be rabbits on the island are in fact the native diminutive Arctic Hares; one of two sorts of wild game (Razorbill being the other) which in 1880 the 'Karlsö Club' stepped in to safeguard, and it became the first protected area of Gotland.

As we walked up the jetty we could see the stony beach was dotted with nesting Arctic Terns. White limestone rocks emerged from the calm sea, and were populated with Razorbills, Guillemots and a nesting Mute Swan. We met our guide, an ecology student, and set off on our walk after pre-ordering lunch at the little café. There are only a few small wooden buildings, a small museum, a few small houses in which you can stay. The weather was sunny and calm with just a little breeze that we were glad of. Almost immediately we passed by Razorbills preening and displaying on the rocks, and two or three nesting Eider ducks a mere metre or so off the path, seemingly unbothered by our presence. One had several dark chicks nestled in with her. Thrush Nightingales called loudly. Biting Stonecrop (*Sedum acre*) was covered in yellow flowers, and Northern Bedstraw (*Galium boreale*), Sand Leek (*Allium scorodoprasum*) and Spotted Cat's-ear (*Hypochaeris maculata*) were notable. A Red-breasted Merganser swam past a few metres off shore. We climbed stone steps – passing another Eider nest – and were soon at the top of the islands cliffs, making our way towards the lighthouse (which will be familiar to watchers of Scandi noir as a Maria Vern location). Just beyond we looked over at the first Guillemot and Razorbill colony on the cliffs below, a seething mass of chuntering black and white birds. The second colony was even bigger, both were superb photo opportunities. On the water below, we watched groups of female eiders with creches of chicks, male Eiders floating around, Velvet Scoters, and of course Razorbills and Guillemots. Heading inland we found Burnt-tip Orchid, Early-purple Orchids, Common Globularia (*Globularia vulgaris*) and fruiting Yellow Anemone (*Anemone ranunculoides*). The flowering Dropwort (*Filipendula vulgaris*) were gorgeous. As we began to descend back to the North Harbour, our guide pointed out Linnaeus's tree. In Linnaeus's visit in 1741, he noted only one tree on the island due to sheep grazing; this tree is now known as Linnaeus's tree. The stone circle surrounding it is a bronze age burial, and the island is much more treed now! Golden Plover and Curlew and an obliging Red-backed Shrike were a nice finale before collecting our excellent lunches – a vegetable stew or spag bol, which we ate looking out to sea from the café.

Ian had planned to stop in the fishing village of Gnismård on our drive back. The fishermen's houses are well worth a look, and the vegetation behind the beach had good amounts of Military Orchid, Sea Pea (*Lathyrus japonicus*) and Moonwort (*Botrychium lunaria*). There were many Pyramidal Orchids (*Anacamptis pyramidalis*) almost in flower. After a last stop for a field of Common Poppies with Field Pansy (*Viola arvensis*) and Hairy Buttercup (*Ranunculus sardous*), we were back at Suderbys.

Lists completed and then salmon for supper. The Swedish ladies group who were staying here sang the Swedish equivalent of Happy Birthday to one of their number celebrating their 90<sup>th</sup> birthday.



After dinner, a five-minute drive took us to the cliffs at Hogklint, where we enjoyed the fantastic views along the coast, the evening air scented with Perfoliate Honeysuckle (*Lonicera caprifolium*) and pine. There were numerous Red-breasted Mergansers and Goosanders on the sea below (also Eider and Velvet Scoter). As a final, final treat, we stopped for Cornflowers (*Centaurea cyanus*) in the edge of an arable field, and two enormous European Brown Hares in a grass field.

Day 4 Thursday 31<sup>st</sup> May  
café and shop at Sudersand)

Fårö (Lauter; Digerhuvud; Helgumannen; Langhammars; Ullahau; Ebbas



Sandy joined me for an early morning look for hares. We found three and got some good photos of them and the Cornflowers too. Checking out a little meadow nature reserve we found Early-purple Orchids and a few Fragrant Orchids (*Gymnadenia conopsea*) as well, amongst the coppiced Hazel.

A relatively long drive today – 50 minutes north to Fårösund where the free and regular car ferry takes us to the island of Fårö. After disembarking it wasn't many minutes that both vans pulled over. What a fantastic selection of birds – an Osprey and a female Marsh Harrier overhead, and two very close Curlews and a pair of Common Cranes feeding in a small meadow!

Fårö, the most northerly part of Gotland, has a different feel to it. The farm houses are solidly built of stone, the barns are often steep-roofed and thatched with Saw-sedge (*Cladium mariscus*), and old stone and wood windmills are very frequent and in good repair. At Lauter we stopped to admire one beautiful barn and the

numerous Early Marsh-orchids (*Dactylorhiza incarnata* ssp. *pulchella* and the paler-pink ssp. *incarnata*) and Military Orchids in the (dry) wetland opposite.

The white alvar landscape with juniper-dominated shingle ridges contrasted with blue sky and sea. Alvar means treeless areas of bare, or almost bare limestone bedrock. Helgumannen's fishing hamlet consists of a handful of tiny but very photogenic wooden shacks which provided the backdrop to our usual fabulous picnic spread on a handy table. There were large numbers of Dark Red Helleborine (*Epipactis atrorubens*) budding in the rather dwarf pine woodland behind the beach, and Black-tailed Skimmer dragonflies were present in very large numbers.

At Langhammars (= long hammars or sea-stacks) we walked amongst towering limestone sea-stacks which the sea has carved out of ancient cliffs. Every stone on the beach seemed to be a fossil of some sort, often coral or sponges. The rare sandwort *Arenaria gothica* can be found amongst the rocks, but though searching Ian couldn't find it. Rafts of Eider were close to shore. Arctic Terns nest all along this stretch and we walked or drove slowly past a number of nests, getting views that were hard to beat.

Stops were also made by several of the beautiful windmills, and numerous Wheatears, Lapwings and Swallowtails were all seen. The dark-fleeced Gotlandic sheep were very friendly indeed and seemed to be greatly enjoying the attention and apple offered by Ann and Claire!



A change of habitat – Ullahau sand-dunes contains almost no calcite so supports a suite of vegetation different to the rest of Gotland, more usual acid-loving species. We walked amongst large areas of Chickweed Wintergreen (*Trientalis europaea*), Twinflower (*Linnaea borealis*) and May Lily under the tall

Scot's Pine and Silver Birch (*Betula pendula*) woodland. Common Polypody (*Polypodium vulgare*) fern and Stag's-horn Clubmoss (*Lycopodium clavatum*) emerged from mosses and *Cladonia* spp. lichens, crispy in the dry spell, and Narrow and Broad Buckler-fern (*Dryopteris carthusiana* and *Dryopteris dilatata*) were here too. These sand dunes were formed relatively recently, beginning in the eighteenth century following over extensive forestry and grazing. They were stabilised in the nineteenth century by extensive planting of pine and marram grass to prevent farm land and even the lighthouse being engulfed by the shifting sands.

We stopped for a welcome coffee and ice cream at the Ebbas café before heading for the ferry and home.

## Day 5 Friday 1<sup>st</sup> June

### Gnisvård stone boat and arable field, Mallgårds flush fen and Visby (inc. Gotland Museum)



We began the day with two stone boat settings. Set in a beautiful, peaceful bit of woodland, this site had graves going from late Stone Age (a circle of upright stones) to late Bronze Age (two large boat settings). A White-tailed Eagle was being mobbed overhead as we arrived, and Heath Fritillaries were flying. Just a few hundred yards away we had to stop again for the most amazing arable field which was almost solid red with Common Poppy (*Papaver rhoeas*). The edges were coloured blue with Cornflowers and there was Corn Gromwell (*Lithospermum arvense*), Corn Buttercup (*Ranunculus arvensis*) - a very rare arable plant in the UK - Narrow-fruited Cornsalad (*Valerianella dentata*) and budding Field Larkspur (*Consolida regalis*) too. Fantastic.

Driving further south past Klintehamn, we explored the western part of the Russ Park. Having parked the vans, we walked along a woodland track towards Mallgårds flush-fen. Northern Chequered Skippers and a gorgeous Long-horned Bee were seen, as well as Military Orchid and Common Spotted Orchids (*Dactylorhiza fuchsii*). Once out

on the fen the dry conditions were very evident; the ground was dry and there was almost no standing water. Half a dozen Gotland Russ ponies were grazing. This breed of pony has been living in a same wild state on Gotland for maybe as long as 5000 years. Along the flush-fen runnel edges there were Common Butterwort and the much rarer white Alpine Butterwort, lots of German Asphodel in flower, Bogbean (*Menyanthes trifoliata*), and all four subspecies of Early Marsh-orchid (*Dactylorhiza incarnata*) - ssp. *incarnata*, ssp. *pulchella*, ssp. *cruenta*, and new for the trip, creamy-yellow ssp. *ochroleuca*. A Cuckoo called from the trees, and Oystercatcher, Redshanks and Lapwings were probably nesting on the fen as they were rather unhappy with us in some places. The rare Alpine Bartsia (*Bartsia alpina*) was seen in good numbers. Along with Alpine Butterwort this is a relict plant from earlier eras - the cool spring-water-fed flush-fens allow alpine species to cling on. A melanistic island form of Grass Snake and a Common Lizard were both glimpsed.

We drove to the beach at Djupvik for lunch, and some of the group searched for fossils and glittery mica pebbles while Ian and I put out the usual magnificent spread. Green-eyed Norfolk Darter dragonflies were common, and Yellowhammer was seen.

Then a quick wash and brush up and change of shoes back at Suderbys and we were ready for an afternoon in Visby. The museum is superb and everyone opted to walk round it. The first hall is full of Viking standing stones, and Viking hoards which have been found on Gotland which are both valuable and often have exquisite jewellery and workmanship.

After an excellent supper followed by species lists, Ian took a minibus down to Gnisvärd for an evening stroll by the fishermen's shacks and the beach at Tofta Strand. The dry period had dried up the vegetation on the dunes but the dune slacks were still damp with Marsh and Dark-red Helleborines still in bud. Jamie and Ian found Seaside Centaury (*Centaureum littorale*) flowering. Watching the sunset over the calm waters of the Baltic Sea made for a peaceful end to the day.

## Day 6 Saturday 2<sup>nd</sup> June

### Öja meadows and church and windmills to the south, meadow near Hamra, Vamlingbo and Stockviken



Today we were in the far south of Gotland. We began in the superb meadows adjoining Öja church. These forest meadows are the final remnants of an ancient rural landscape and probably date back to the end of the Iron Age, around 1500 years ago, when the deteriorating climate made it impossible to graze livestock in the open all year round. The meadows were made by the thinning of deciduous forests on the most fertile soils, making it possible to harvest grasses and herbs for winter fodder. The coppiced hazel and other trees provided further fodder. The removal of the harvest each year for hundreds of years reduced fertility and increased plant diversity. Traditionally the flowering of Wood Anemone (*Anemone nemorosa*) mark the time for raking out old vegetation, and the ripening of Great Yellow-rattle marked the time for mowing. Under a network of coppiced Hazel and large Oak and Ash are such variety of plants and orchids that it is important to avoid trampling and stick to the trails to admire the many Military, Fragrant, Lesser Butterfly and Twayblade orchids, as well as Fairy Flax (*Linum catharticum*), Northern

Bedstraw and Meadow Saxifrage. A second, slightly more rank meadow had good numbers of Common Spotted Orchids, Common Meadow Rue (*Thalictrum flavum*), and Adder's-tongue (*Ophioglossum vulgatum*) ferns. We saw a couple of Collared Flycatchers flitting in the trees here; this species is intimately associated with the forest meadows of Gotland and is not found elsewhere in Sweden. The 13<sup>th</sup> century church is notable for the original gargoyles on the well-preserved tower, three Gothic portals and the 15<sup>th</sup> century murals. The murals in the church do lead you to wonder what message the painters were trying to get across, and the devil features strongly.

Ian next took us to a nearby field where two old wooden windmills provided an amazing backdrop to the tens of thousands of orchids – Military mainly but also Lesser Butterfly, Fly, Burnt-tip, Early-marsh and Twayblade orchids in the damp grassland. What a sight! Jamie explored the field on the opposite side of the road and found hundreds of Early-purple Orchids. Not much further south on the road to Hamra, Ian pulled in for some magnificent stands of Sword-leaved Helleborines, in a grassy verge with an ancient wall and gate backdrop. Past Hamra we stopped at an area of damp fields where in previous years Ian had seen Musk Orchid (*Herminium monorchis*). As we pulled up the field was full of cattle! Despite the cattle Ian and Jamie looked and though the habitat looked fine none could be seen. Along the verge Phil found two very fine pure white Early Marsh-Orchids (*D. incarnata* ssp. *incarnata* var. *leucantha*).



With hunger striking, we drove to Vamlingbo where Ian and Fi spread out the picnic on the shaded wall of the churchyard, as the group explored the adjacent Lars Jonsson museum and gallery, and naturum Gotland - a wildlife exhibit. A noted wildlife artist, Lars Jonsson's paintings were admired but the high prices were too much!

After a relaxed lunch we drove to the east coast to the marshy fields and reed-lined lagoon at Stockviken. The hide at Stockviken gives a fine view over the lake and open coastal meadows. As late as the end of the nineteenth century Inre Stockviken was a sea bay before it was cut off by an 300m long isthmus following isostatic sea rise. In the brackish meadows between the road and the hide we found Celery-leaved Buttercup (*Ranunculus sceleratus*), Grey Club-rush (*Schoenoplectrus tabernaemontani*), Pink Water-speedwell (*Veronica catenata*), Marsh Arrow-grass (*Triglochin palustre*), and in less brackish areas, Adder's-tongue Fern, Moonwort, Grass-of-Parnassus (*Parnassia palustris*) and many Green-winged Orchids. The very wobbly hide gave us views of two Common Crane, Shelduck, Reed Bunting and our first Coots of the trip. Two White-tailed Eagles roosting in a tree on the other side of the lagoon could just be made out.



### **Sunday 3<sup>rd</sup> June The Return home**

We said our goodbyes to Jamie and Joanne, who had one more day at Suderbys and had plans to borrow the hotel bicycles and explore locally. Dodging a thunderstorm in the morning, which headed south, there was time for a couple of hours in beautiful Visby before heading to the airport. Fi guarded the minibuses and was treated to the rather lovely sight of 5 teenage girls cycling along, all singing lustily to old-fashioned Swedish music playing on a radio. Very wholesome and Swedish!

We all were on the same flight to Stockholm, before saying our goodbyes and boarding planes bound for various onward locations from there.

## Systematic List Number 1

## Plants

The following list mentions sites where plants were seen or for the days seen if more common. Species recorded in 2017 or earlier trips, but not in 2018 are enclosed with square brackets [e.g.]. Taxonomy and Nomenclature taken from Stace (2010) and Den Nya Nordiska Floran by Stenberg & Mossberg (2003).

### PTERIDOPHYTES – FERNS AND FERN-ALLIES

#### LYCOPHYTES (CLUBMOSES AND QUILLWORTS)

##### Lycopodiaceae

##### Clubmoss Family

*Lycopodium annotinum*

Interrupted Clubmoss

Kallgatburg, Ullahau

*Lycopodium clavatum*

Stag's-horn Clubmoss

Ullahau

#### EUSPORANGIATE FERNS (ADDER'S-TONGUES AND MOONWORTS)

##### Ophioglossaceae

##### Adder's-tongue Family

*Ophioglossum vulgatum*

Adder's-tongue

scattered e.g. Öja meadow

*Botrychium lunaria*

Moonwort

Gnismvärd, Helgumannen

#### CALAMOPHYTES (HORSETAILS)

##### Equisetaceae

##### Horsetail Family

*Equisetum variegatum*

Variegated Horsetail

Tofta Strand dune slack

*Equisetum arvense*

Field Horsetail

common

*Equisetum palustre*

Marsh Horsetail

scattered

#### LEPTOSPORANGIATE FERNS (TRUE FERNS)

##### Dennstaedtiaceae

##### Bracken Family

*Pteridium aquilinum*

Bracken

common

##### Aspleniaceae

##### Spleenwort Family

*Asplenium trichomanes*

Maidenhair Spleenwort

Stora Karlsö

*Asplenium ruta-muraria*

Wall-rue

on rocks, walls, as on  
Gothem Church

##### Thelypteridaceae

##### Marsh Fern Family

*Thelypteris palustris*

Marsh Fern

by road at Gnismvärd stone  
boat

##### Dryopteridaceae

##### Buckler-fern Family

*Dryopteris carthusiana*

Narrow Buckler-fern

Ullahau

*Dryopteris dilatata*

Broad Buckler-fern

Ullahau

##### Polypodiaceae

##### Polypody Family

*Polypodium vulgare*

Common Polypody

Ullahau

## GYMNOSPERMS - (CONIFERS)

<b>Pinaceae</b>	<b>Pine Family</b>	
<i>Pinus sylvestris</i>	Scots Pine	widespread
<i>Picea abies</i>	Norway Spruce	widespread
<b>Taxaceae</b>	<b>Yew Family</b>	
<i>Taxus baccata</i>	Yew	locally common at Kallgatburg
<b>Cupressaceae</b>	<b>Juniper Family</b>	
<i>Juniperis communis</i>	Juniper	widespread and locally dominant

## ANGIOSPERMS (FLOWERING PLANTS)

### PRE-DICOTS (PRIMITIVE ANGIOSPERMS)

<b>Nymphaeaceae</b>	<b>Water-lily Family</b>	
<i>Nymphaea alba</i>	White Water-lily	near Gannarve
<i>Nuphar lutea</i>	Yellow Water-lily	Tingstäde, in river

### EU-DICOTS (TRUE DICOTYLEDONS)

<b>Papaveraceae</b>	<b>Poppy Family</b>	
<i>Papaver rhoeas</i>	Common Poppy	locally common in arable fields
<i>Papaver dubium</i>	Long-Headed Poppy	scattered
<i>Chelidonium majus</i>	Greater Celandine	common
<i>Pseudofumaria lutea</i>	Yellow Corydalis	Visby
<b>Berberidaceae</b>	<b>Barberry Family</b>	
<i>Berberis vulgaris</i>	Common Barberry	common
<b>Ranunculaceae</b>	<b>Buttercup Family</b>	
<i>Consolida regalis</i>	Field Larkspur	in poppy field near Gnisvärd
<i>Anemone nemorosa</i>	Wood Anemone	common in woods
<i>Anemone ranunculoides</i>	Yellow Anemone	Stora Karlsö
<i>Anemone sylvestris</i>	Snowdrop Windflower	scattered
<i>Hepatica nobilis</i>	Hepatica	common in woods, in flower on day 2
<i>Pulsatilla pratensis</i>	Small Pasqueflower	on the coast, in flower at Närsholmen
<i>Caltha palustris</i>	Marsh-marigold	scattered in damp places
<i>Adonis vernalis</i>	Yellow Pheasant's-eye	Stora Karlsö, in fruit
<i>Myosurus minimus</i>	Mousetail	Stockviken
<i>Ranunculus acris</i>	Meadow Buttercup	common
<i>Ranunculus auricomus</i>	Goldilocks Buttercup	Närsholmen
<i>Ranunculus arvensis</i>	Corn Buttercup	in poppy field near Gnisvärd
<i>Ranunculus repens</i>	Creeping Buttercup	common
<i>Ranunculus polyanthemos</i>	a buttercup	scattered

<i>Ranunculus sceleratus</i>	Celery-leaved Buttercup	Stockviken
<i>Ranunculus bulbosus</i>	Bulbous Buttercup	scattered
<i>Ranunculus sardous</i>	Hairy Buttercup	in poppy field near Gnisvärd
<i>Ranunculus flammula</i>	Lesser Spearwort	common: wet places
<i>Ranunculus ficaria</i>	Lesser Celandine	scattered, leaves only
<i>Ranunculus trichophyllus</i>	Thread-leaved Water-crowfoot	Närsholmen, Stockviken
<i>Aquilegia vulgaris</i>	Columbine	scattered
<i>Thalictrum minus</i> ssp. <i>minus</i>	Lesser Meadow-rue	scattered
<i>Thalictrum flavum</i>	Common Meadow-rue	Öja meadow – in leaf

#### **Grossulariaceae**

*Ribes spicatum*  
*Ribes alpinum*  
*Ribes uva-crispa*

#### **Gooseberry Family**

Downy Currant  
Mountain Currant  
Wild Gooseberry

scattered  
Stora Karlsö  
scattered

#### **Saxifragaceae**

*Saxifraga tridactylites*  
*Saxifraga granulata*

#### **Saxifrage Family**

Rue-leaved Saxifrage  
Meadow Saxifrage

scattered  
common

#### **Crassulaceae**

*Sedum album*  
*Sedum acre*

#### **Stonecrop Family**

White Stonecrop  
Biting Stonecrop

scattered  
common

#### **Fabaceae**

*Oxytropis campestris*  
*Vicia cracca*  
*Vicia cassubica*  
*Lathyrus vernus*  
*Lathyrus japonicus*  
*Lathyrus pratensis*  
*Lathyrus palustris*  
*Ononis repens*  
*Medicago lupulina*  
*Trifolium repens*  
*Trifolium campestre*  
*Trifolium dubium*  
*Trifolium pratense*  
*Lotus corniculatus*  
*Tetragonolobus maritimus*

#### **Pea Family**

Yellow Milk-vetch  
Tufted Vetch  
Danzig Vetch  
Spring Pea  
Sea Pea  
Meadow Vetchling  
Marsh Pea  
Restharrow  
Black Medick  
White Clover  
Hop Trefoil  
Lesser Trefoil  
Red Clover  
Common Bird's-foot-trefoil  
Dragon's-teeth

Närsholmen  
scattered  
near Visby  
near Mallgårds fen  
Gnisvärd  
scattered  
Närsholmen  
Gnisvärd  
common  
scattered  
scattered  
common  
common  
common  
common, in coastal  
meadows and fens  
common

*Anthyllis vulneraria*

Kidney-vetch

#### **Polygalaceae**

*Polygala vulgaris*  
*Polygala comosa*  
*Polygala amarella*

#### **Milkwort Family**

Common Milkwort  
Tufted Milkwort  
Dwarf Milkwort

scattered  
scattered  
Kallgatburg

#### **Rosaceae**

#### **Rose Family**

<i>Filipendula vulgaris</i>	Dropwort	common
<i>Filipendula ulmaria</i>	Meadowsweet	common
<i>Rubus chamaemorus</i>	Cloudberry	scattered, Kallgatburg
<i>Rubus saxatilis</i>	Stone Bramble	common
<i>Rubus idaeus</i>	Raspberry	common
<i>Rubus caesius</i>	Dewberry	scattered
<i>Rosa canina</i>	Dog-rose	common
<i>Rosa villosa</i> ssp. <i>mollis</i>	Soft Downy-rose	Kallgatburg
<i>Sanguisorba officinalis</i>	Great Burnet	Kallgatburg, leaves only
<i>Sanguisorba minor</i>	Salad Burnet	Stora Karlsö
<i>Geum rivale</i>	Water Avens	common, as at Närsholmen
<i>Geum urbanum</i>	Wood Avens	common
<i>Geum x intermedium</i>	<i>Geum</i> hybrid	(parents are <i>Geum rivale</i> and <i>Geum urbanum</i> ) Öja meadow)
<i>Potentilla anserina</i>	Silverweed	common
<i>Potentilla argentea</i>	Hoary Cinquefoil	scattered
<i>Potentilla tabernaemontani</i>	a cinquefoil	scattered
<i>Potentilla erecta</i>	Tormentil	common
<i>Fragaria vesca</i>	Wild Strawberry	common
<i>Fragaria viridis</i>	Green Strawberry	scattered
<i>Aphanes arvensis</i>	Parsley-piert	Tofta poppy field
<i>Alchemilla</i> sp.	unidentified lady's-mantle	scattered
<i>Malus sylvestris</i>	Wild Apple	scattered
<i>Sorbus aucuparia</i>	Rowan	common
<i>Sorbus rupicola</i>	Rock Whitebeam	common
<i>Sorbus hybrida</i>	Swedish Service-tree	scattered
<i>Sorbus intermedia</i>	Swedish Whitebeam	common
<i>Cotoneaster integerrimus</i>	a cotoneaster	common
<i>Cotoneaster niger</i>	a cotoneaster	common
<i>Crataegus laevigata</i>	Midland Hawthorn	common
<i>Crataegus monogyna</i>	Hawthorn	common
<i>Prunus spinosa</i>	Blackthorn	common
<i>Prunus avium</i>	Wild Cherry	scattered
<i>Prunus mahaleb</i>	St Lucie Cherry	Stora Karlsö, invasive non-native
<b>Rhamnaceae</b>	<b>Buckthorn Family</b>	
<i>Rhamnus catharticus</i>	Buckthorn	common
<i>Frangula alnus</i>	Alder Buckthorn	common, as at Mallgårds
<b>Ulmaceae</b>	<b>Elm Family</b>	
<i>Ulmus glabra</i>	Wych Elm	widespread
<i>Ulmus minor</i>	Elm	rarely seen
<b>Urticaceae</b>	<b>Nettle Family</b>	
<i>Urtica dioica</i>	Common Nettle	near habitation
<i>Urtica urens</i>	Small Nettle	Langhammars
<b>Fagaceae</b>	<b>Beech Family</b>	

<i>Quercus robur</i>	Pedunculate Oak	widespread
<b>Myricaceae</b> <i>Myrica gale</i>	<b>Bog-myrtle Family</b> Bog-myrtle	Kallgatburg
<b>Betulaceae</b> <i>Betula pubescens</i> <i>Betula pendula</i> <i>Alnus glutinosa</i> <i>Corylus avellana</i>	<b>Birch Family</b> Downy Birch Silver Birch Alder Hazel	widespread widespread by streams frequent, as at Öja
<b>Parnassiaceae</b> <i>Parnassia palustris</i>	<b>Grass-of-Parnassus Family</b> Grass-of-Parnassus	Stockviken
<b>Oxalidaceae</b> <i>Oxalis acetosella</i>	<b>Wood Sorrel Family</b> Wood-sorrel	scattered
<b>Euphorbiaceae</b> <i>Euphorbia esula</i> <i>Mercurialis perennis</i>	<b>Spurge Family</b> Leafy Spurge Dog's Mercury	Visby common
<b>Salicaceae</b> <i>Salix pentandra</i> <i>Salix triandra</i> <i>Salix cinerea</i> <i>Salix caprea</i> <i>Salix repens</i> <i>Salix rosmarinifolia</i> <i>Populus tremula</i>	<b>Willow Family</b> Bay Willow Almond Willow Grey Willow Goat Willow Creeping Willow a willow Aspen	widespread widespread along streams widespread scattered in fens or wet places Kallgatburg widespread
<b>Violaceae</b> <i>Viola rivinana</i> <i>Viola reichenbachiana</i> <i>Viola canina</i> <i>Viola pumila</i> <i>Viola arvensis</i>	<b>Violet Family</b> Common Dog-violet Early Dog-violet Heath Dog-violet Meadow Violet Field Pansy	scattered scattered Närsholmen Kallgatburg Tofta poppy field
<b>Linaceae</b> <i>Linum austriacum</i> <i>Linum catharticum</i>	<b>Flax Family</b> Asian Flax Purging Flax	north of Visby by roadside scattered
<b>Hypericaceae</b> <i>Hypericum perforatum</i>	<b>St John's-wort Family</b> Perforate St John's-wort	scattered
<b>Geraniaceae</b> <i>Geranium sanguineum</i> <i>Geranium sylvaticum</i> <i>Geranium pyrenaicum</i>	<b>Crane's-bill Family</b> Bloody Crane's-bill Wood Crane's-bill Hedgerow Crane's-bill	common common scattered

<i>Geranium molle</i>	Dove's-foot Crane's-bill	scattered
<i>Geranium pusillum</i>	Small-flowered Crane's-bill	in poppy field near Gnisvärd
<i>Geranium columbinum</i>	Long-stalked Crane's-bill	scattered
<i>Geranium dissectum</i>	Cut-leaved Crane's-bill	in poppy field near Gnisvärd
<i>Geranium lucidum</i>	Shining Crane's-bill	Stora Karlsö etc
<i>Geranium robertianum</i>	Herb-Robert	common
<i>Erodium cicutarium</i>	Common Stork's-bill	Gannarve
<b>Onagraceae</b>	<b>Willowherb Family</b>	
<i>Chamerion angustifolium</i>	Rosebay Willowherb	scattered, in leaf
<b>Sapindaceae</b>	<b>Maple Family</b>	
<i>Acer platanoides</i>	Norway Maple	common
<b>Malvaceae</b>	<b>Mallow Family</b>	
<i>Malva sylvestris</i>	Common Mallow	scattered
<i>Tilia cordata</i>	Small-leaved Lime	scattered
<i>Tilia x europaea</i>	Common Lime	Vamlingbo
<b>Cistaceae</b>	<b>Rock-rose Family</b>	
<i>Helianthemum nummularia</i>	Common Rock-rose	common
<b>Resedaceae</b>	<b>Mignonette Family</b>	
<i>Reseda lutea</i>	Wild Mignonette	common
<b>Brassicaceae</b>	<b>Cabbage Family</b>	
<i>Descurainia sophia</i>	Flixweed	Stockviken
<i>Alliaria petiolata</i>	Garlic Mustard	Stora Karlsö
<i>Bunias orientalis</i>	Warty-cabbage	scattered
<i>Isatis tinctoria</i>	Woad	scattered, Gnisvärd
<i>Erysimum cheiranthoides</i>	Treacle-mustard	Stora Karlsö
<i>Barbarea vulgaris</i>	Common Winter-cress	scattered
<i>Barbarea stricta</i>	Small-flowered Winter-cress	Stora Karlsö
<i>Cardamine pratensis</i>	Cuckooflower	Närsholmen
<i>Arabis hirsuta</i>	Hairy Rock-cress	scattered
<i>Capsella bursa-pastoris</i>	Shepherd's-purse	common
<i>Thlaspi arvense</i>	Field Penny-cress	in poppy field near Gnisvärd
<i>Hornungia petraea</i>	Hutchinsia	common
<i>Diplotaxis muralis</i>	Annual Wall-rocket	Visby
<i>Erophila verna</i>	Common Whitlowgrass	common
<i>Cakile maritima</i>	Sea-rocket	Tofta Strand, leaves only
<b>Polygonaceae</b>	<b>Knotweed Family</b>	
<i>Polygonum aviculare</i>	Knotgrass	Fårö
<i>Rumex longifolius</i>	Northern Dock	scattered
<i>Rumex crispus</i>	Curled Dock	widespread
<i>Rumex acetosa</i>	Common Sorrel	widespread
<i>Rumex acetosella</i>	Sheep's Sorrel	scattered

<b>Droseraceae</b> <i>Drosera anglica</i>	<b>Sundew Family</b> Great Sundew	Mallgårds fen
<b>Caryophyllaceae</b> <i>Arenaria serpyllifolia</i> <i>Moehringia trinervia</i> <i>Honckenya peploides</i> <i>Stellaria media</i> <i>Stellaria pallida</i> <i>Stellaria graminea</i> <i>Cerastium arvense</i> <i>Cerastium fontanum</i> <i>Cerastium tomentosum</i> <i>Sagina procumbens</i> <i>Herniaria glabra</i> <i>Lychnis viscaria</i> <i>Silene nutans</i> <i>Silene uniflora</i> <i>Silene latifolia</i> <i>Dianthus deltooides</i>	<b>Pink Family</b> Thyme-leaved Sandwort Three-veined Sandwort Sea Sandwort Common Chickweed Lesser Chickweed Lesser Stitchwort Field Mouse-ear Common Mouse-ear Snow-in-summer Procumbent Pearlwort Smooth Rupturewort Sticky Catchfly Nottingham Catchfly Sea Campion White Campion Maiden Pink	widespread Stora Karlsö Gnisvärd widespread scattered scattered Fårö scattered Gannarve widespread widespread Stora Karlsö, Kallgatburg widespread Langhammars scattered Gålrum
<b>Amaranthaceae</b> <i>Chenopodium rubrum</i> <i>Atriplex littoralis</i>	<b>Goosefoot Family</b> Red Goosefoot Grass-leaved Orache	Tofta Strand Tofta Strand
<b>Cornaceae</b> <i>Cornus sanguinea</i>	<b>Dogwood Family</b> Dogwood	scattered
<b>Primulaceae</b> <i>Primula veris</i> <i>Primula farinosa</i>  <i>Lysimachia vulgaris</i> <i>Trientalis europaea</i> <i>Glaux maritima</i>	<b>Primrose Family</b> Cowslip Bird's-eye Primrose  Yellow Loosestrife Chickweed Wintergreen Sea-milkwort	common Kallgatburg, Botvaldevik, Mallgårds Stockviken Ullahau Stockviken
<b>Ericaceae</b> <i>Calluna vulgaris</i> <i>Vaccinium vitis-idea</i> <i>Vaccinium myrtillus</i> <i>Arctostaphylos uva-ursi</i> <i>Pyrola chlorantha</i> <i>Orthilia secunda</i> <i>Moneses uniflora</i>	<b>Heather Family</b> Heather Cowberry Bilberry Bearberry Yellow Wintergreen Serrated Wintergreen One-flowered Wintergreen	common common common common Kallgatburg, Botvaldevik Botvaldevik Ullahau, near
<b>Rubiaceae</b> <i>Asperula tinctoria</i> <i>Galium boreale</i>	<b>Bedstraw Family</b> Squinancywort Northern Bedstraw	common common



<i>Galium palustre</i>	Marsh Bedstraw	scattered
<i>Galium verum</i>	Lady's Bedstraw	common
<i>Galium aparine</i>	Cleavers	scattered
<b>Gentianaceae</b>	<b>Gentian Family</b>	
<i>Centaureum littorale</i>	Seaside Centaury	Tofta Strand
<b>Apocynaceae</b>	<b>Periwinkle Family</b>	
<i>Vincetoxicum hirundinaria</i>	Swallow-wort	common
<b>Boraginaceae</b>	<b>Borage Family</b>	
<i>Lithospermum arvense</i>	Corn Gromwell	Stora Karlsö, poppy field nr. Gnismård
<i>Echium vulgare</i>	Viper's-bugloss	common
<i>Anchusa officinalis</i>	Alkanet	scattered
<i>Myosotis laxa</i>	Tufted Forget-me-not	Stockviken
<i>Cynoglossum officinale</i>	Hound's-tongue	scattered
<b>Convolvulaceae</b>	<b>Bindweed Family</b>	
<i>Convolvulus arvensis</i>	Field Bindweed	common
<b>Oleaceae</b>	<b>Olive Family</b>	
<i>Fraxinus excelsior</i>	Ash	common (but many with Ash Dieback)
<b>Veronicaceae</b>	<b>Speedwell Family</b>	
<i>Veronica spicata</i>	Spiked Speedwell	Stora Karlsö
<i>Veronica chamaedrys</i>	Germander Speedwell	common
<i>Veronica beccabunga</i>	Brooklime	Mallgårds fen
<i>Veronica scutellata</i>	Marsh Speedwell	Mallgårds fen
<i>Veronica catenata</i>	Pink Water-speedwell	Stockviken
<i>Veronica arvensis</i>	Wall Speedwell	common
<i>Veronica persica</i>	Common Field-speedwell	Tingstäde
<i>Cymbalaria muralis</i>	Ivy-leaved Toadflax	walls in Visby
<i>Linaria vulgaris</i>	Common Toadflax	Tofta poppy field
<b>Plantaginaceae</b>	<b>Plantain Family</b>	
<i>Plantago major</i>	Greater Plantain	scattered
<i>Plantago lanceolata</i>	Ribwort Plantain	common
<i>Plantago maritima</i>	Sea Plantain	Djupvik
<i>Globularia vulgaris</i>	Common Globularia	common
<b>Lamiaceae</b>	<b>Mint Family</b>	
<i>Teucrium scordium</i>	Water Germander	Närsholmen
<i>Lamium purpureum</i>	Red Deadnettle	Tofta poppy field
<i>Prunella vulgaris</i>	Self-Heal	common
<i>Acinos arvensis</i>	Basil-thyme	Gannarve, Stora Karlsö
<i>Origanum vulgare</i>	Marjoram	Stora Karlsö

<i>Thymus serpyllum</i>	Breckland Thyme	scattered
<i>Lycopus europaeus</i>	Gipsywort	Närsholmen
<i>Mentha aquatica</i>	Water Mint	scattered
<i>Salvia pratensis</i>	Meadow Clary	Gannarve
<b>Orobanchaceae</b>	<b>Broomrape Family</b>	
<i>Melampyrum pratense</i>	Common Cow-wheat	Gnisvärd stone boat
<i>Melampyrum sylvaticum</i>	Small Cow-wheat	Kallgatburg
<i>Melampyrum arvense</i>	Field Cow-Wheat	scattered, as at Gannarve
<i>Bartsia alpina</i>	Alpine Bartsia	Mallgårds fen
<i>Rhinanthus serotinus</i>	Greater Yellow-rattle	scattered
<i>Rhinanthus minor</i>	Yellow-rattle	scattered
<b>Lentibulariaceae</b>	<b>Butterwort Family</b>	
<i>Pinguicula vulgaris</i>	Common Butterwort	Kallgatburg, Botvaldevik, Mallgårds
<i>Pinguicula alpina</i>	Alpine Butterwort	Kallgatburg, Mallgårds
<b>Campanulaceae</b>	<b>Bellflower Family</b>	
<i>Campanula rotundifolia</i>	Harebell	scattered, in flower at Närsholmen
<b>Menyanthaceae</b>	<b>Bogbean Family</b>	
<i>Menyanthes trifoliata</i>	Bogbean	Mallgårds fen
<b>Asteraceae</b>	<b>Daisy Family</b>	
<i>Bellis perennis</i>	Daisy	common
<i>Antennaria dioica</i>	Mountain Everlasting	common
<i>Inula britannica</i>	Meadow Fleabane	common, leaf only
<i>Anthemis arvensis</i>	Corn Chamomile	arable field near Suderbys
<i>Achillea millefolium</i>	Yarrow	scattered
<i>Tripleurospermum perforatum</i>	Scentless Mayweed	scattered
<i>Leucanthemum vulgare</i>	Ox-eye Daisy	scattered
<i>Artemisia campestris</i>	Field Wormwood	scattered
<i>Artemisia vulgaris</i>	Mugwort	scattered
<i>Artemisia absinthium</i>	Wormwood	scattered
<i>Seriphidium maritimum</i> ssp. <i>humifusa</i>	Sea Wormwood	scattered
<i>Tussilago farfara</i>	Colt's-foot	Djupvik, leaves only
<i>Petasites hybridus</i>	Butterbur	Visby
<i>Senecio vulgaris</i>	Groundsel	common
<i>Carlina vulgaris</i> ssp. <i>stricta</i>	Carlina Thistle	scattered
<i>Arctium tomentosum</i>	Woolly Burdock	Tingstäde
<i>Cirsium arvense</i>	Creeping Thistle	Gnisvärd poppy field
<i>Cirsium palustre</i>	Marsh Thistle	scattered
<i>Cirsium acaule</i>	Dwarf Thistle	common
<i>Centaurea scabiosa</i>	Greater Knapweed	scattered
<i>Centaurea cyanus</i>	Cornflower	Gnisvärd poppy field
<i>Centaurea cheiranthifolia</i>	a cornflower	Tingstäde, naturalised

<i>Hypochoeris maculata</i>	Spotted Cat's-ear	Närsholmen, Stora Karlsö
<i>Scorzonera humilis</i>	Viper's-grass	common
<i>Tragopogon pratensis</i>	Goat's-beard	common
<i>Sonchus oleraceus</i>	Smooth Sow-thistle	scattered
<i>Taraxacum officinale</i> agg.	Dandelion	common
<i>Pilosella officinarum</i>	Mouse-ear-hawkweed	common
<i>Hieracium</i> agg.	unidentified hawkweed spp.	scattered
<b>Caprifoliaceae</b>	<b>Honeysuckle Family</b>	
<i>Viburnum opulus</i>	Guelder Rose	common
<i>Linnaea borealis</i>	Twinflower	Ullahau
<i>Lonicera xylosteum</i>	Fly Honeysuckle	scattered
<i>Lonicera caprifolium</i>	Perfoliate Honeysuckle	Hogklint
<b>Valerianaceae</b>	<b>Valerian Family</b>	
<i>Valerianella locusta</i>	Common Cornsalad	scattered
<i>Valerianella dentata</i>	Narrow-fruited Cornsalad	Gnismård poppy field
<i>Valeriana officinalis</i>	Common Valerian	scattered
<b>Dipsacaceae</b>	<b>Teasel Family</b>	
<i>Succisa pratensis</i>	Devil's-bit Scabious	scattered, leaf only
<i>Scabiosa columbaria</i>	Small Scabious	Stora Karlsö
<b>Araliaceae</b>	<b>Ivy Family</b>	
<i>Hedera helix</i>	Ivy	scattered
<b>Hydrocotylaceae</b>	<b>Pennywort Family</b>	
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	scattered, damp places
<b>Apiaceae</b>	<b>Carrot Family</b>	
<i>Sanicula europaea</i>	Sanicle	scattered in woods
<i>Anthriscus sylvestris</i>	Cow Parsley	common
<i>Myrrhis odorata</i>	Sweet Cicely	Stora Karlsö
<i>Aegopodium podagraria</i>	Ground-elder	Visby
<i>Berula erecta</i>	Lesser Water-parsnip	Tofta Strand
<i>Carum carvi</i>	Caraway	Kallgatburg
<i>Angelica sylvestris</i>	Wild Angelica	scattered, leaves only
<i>Heracleum sphondylium</i>	Hogweed	Öja meadow (ssp. <i>sibiricum</i> with yellowy flowers)
<i>Laserpitium latifolium</i>	Sermountain	Högklint, common – in leaf
<i>Daucus carota</i>	Wild Carrot	scattered – in leaf only
<b>MONOCOTS (MONOCOTYLEDONS)</b>		
<b>Tofieldiaceae</b>		
<i>Tofieldia calyculata</i>	German Asphodel	Kallgatburg, Mallgårds
<b>Juncaginaceae</b>	<b>Arrow-grass Family</b>	

<i>Triglochin palustre</i>	Marsh Arrow-grass	Stockviken
<i>Triglochin maritima</i>	Sea Arrow-grass	Botvaldevik
<b>Potamogetonaceae</b>	<b>Pondweed Family</b>	
<i>Potamogeton gramineus</i>	Various-leaved Pondweed	Mallgårds
<b>Melanthiaceae</b>		
<i>Paris quadrifolia</i>	Herb-paris	Kallgatburg
<b>Orchidaceae</b>	<b>Orchid Family</b>	
<i>Cypripedium calceolus</i>	Lady's-slipper	c.400 in fantastic flower at Kallgatburg
<i>Epipactis palustris</i>	Marsh Helleborine	in bud at Tofta Strand and Gnisvärd
<i>Epipactis atrorubens</i>	Dark-red Helleborine	leaves and buds only at Tofta Strand and Helgumannen, Fårö
<i>Cephalanthera longifolia</i>	Sword-leaved Helleborine	widespread in flower, inc. north of Botvaldevik, south of Öja, Fårö
<i>Cephalanthera rubra</i>	Red Helleborine	leaves and buds only north of Botvaldevik
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	in flower north of Botvaldevik
<i>Neottia ovata</i>	Twayblade	in flower, widespread
<i>Neottia cordata</i>	Lesser Twayblade	leaves only north of Botvaldevik
<i>Goodyera repens</i>	Creeping Lady's-tresses	leaves seen north of Botvaldevik
<i>Herminium monorchis</i>	Musk Orchid	looked for west of Hamra, not seen
<i>Platanthera bifolia</i>	Lesser Butterfly-orchid	in flower, widespread, as at Öja
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	in leaf only, north of Botvaldevik
<i>Gymnadenia conopsea</i>	Fragrant Orchid	in flower, scattered, as at Öja
<i>Coeloglossum viride</i>	Frog Orchid	several in flower in damp meadow east of road northwest of Närsholmen
<i>Dactylorhiza sambucina</i>	Elder-flowered Orchid	a couple of specimens in fine flower at Närsholmen, otherwise mostly over
<i>Dactylorhiza incarnata</i> ssp. <i>ochroleuca</i>	Early Marsh-orchid	pale yellow/cream coloured flowers, west of Hamra, Mallgårds
<i>Dactylorhiza incarnata</i> ssp. <i>incarnata</i>	Early Marsh-orchid	typical pale flesh-pink form, widespread
<i>Dactylorhiza incarnata</i> ssp. <i>incarnata</i> var. <i>leucantha</i>		two specimens with pure white flowers were found in a ditch west of Hamra
<i>Dactylorhiza incarnata</i> ssp. <i>pulchella</i>	Early Marsh-orchid	purple-flowered, widespread, as at Mallgårds
<i>Dactylorhiza incarnata</i> ssp. <i>cruenta</i>	Early Marsh-orchid	in flower, leaves spotted on both sides and stems and bracts heavily marked too, only seen at Mallgårds
<i>Dactylorhiza traunsteinerii</i>	Pugsley's Marsh-orchid	in flower at Kallgatburg, on path to Lady's-slipper Orchid site
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	in flower, scattered
<i>Orchis morio</i>	Green-winged Orchid	in flower, Stockviken, Närsholmen
<i>Orchis ustulata</i>	Burnt-tip Orchid	in flower, scattered – many in windmill field south of Öja

<i>Orchis militaris</i>	Military Orchid	in flower, widespread and quite common, abundant in windmill field south of Öja
<i>Orchis spitzelii</i>	Alpine Orchid	in flower, only three found near Fjäle – found by Dallas and Terry after extensive searching!
<i>Orchis mascula</i>	Early-purple Orchid	in flower, widespread and common
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	almost in flower, Gnisvärd
<i>Ophrys insectifera</i>	Fly Orchid	in flower, a few– many in windmill field south of Öja, in damp meadow east of road northwest of Närsholmen
<b>Iridaceae</b>		
<i>Iris pseudacorus</i>	<b>Iris Family</b> Yellow Iris	common
<b>Alliaceae</b>		
<i>Allium schoenoprasum</i>	Chives	Kallgatburg, Fårö
<i>Allium scorodoprasum</i>	Sand Leek	scattered (leaves used in local soup)
<i>Allium ursinum</i>	Ramsons	woods
<i>Allium vineale</i>	Crow Garlic	scattered
<b>Asparagaceae</b>		
<i>Convallaria majalis</i>	Lily-of-the-valley	common in woods
<i>Polygonatum odoratum</i>	Angular Solomon's-seal	common
<i>Maianthemum bifolium</i>	May Lily	common, as at Ullahau
<i>Asparagus officinalis</i>	Asparagus	Gannarve
<b>Typhaceae</b>		
<i>Typha latifolia</i>	<b>Bulrush Family</b> Bulrush	Lauters, Fårö
<b>Juncaceae</b>		
<i>Juncus articulatus</i>	<b>Rush Family</b> Jointed Rush	scattered
<i>Juncus bufonius</i>	Toad Rush	scattered
<i>Luzula campestris</i>	Field Wood-rush	Närsholmen
<i>Luzula multiflora</i>	Many-headed Wood-rush	Närsholmen
<i>Luzula luzuloides</i>	White Wood-rush	Ullahau
<i>Luzula pilosa</i>	Hairy Wood-rush	scattered
<b>Cyperaceae</b>		
<i>Bolboschoenus maritimus</i>	<b>Sedge Family</b> Sea Club-rush	Stockviken
<i>Scirpus tabernaemontani</i>	Grey Club-rush	Stockviken
<i>Eriophorum angustifolium</i>	Common Cottongrass	scattered
<i>Eriophorum latifolium</i>	Broad-leaved Cottongrass	Kallgatburg
<i>Eleocharis quinqueflora</i>	Few-flowered Spike-rush	common
<i>Eleocharis palustris</i>	Common Spike-rush	Närsholmen
<i>Cladium mariscus</i>	Great Fen-sedge	Botvaldevik, Fårö
<i>Schoenus nigricans</i>	Black Bog-rush	Kallgatburg

<i>Schoenus ferrugineus</i>	Brown Bog-rush	Mallgårds
[ <i>Carex vulpina</i>	True Fox-sedge	common]
[ <i>Carex spicata</i>	Spiked Sedge	South Gotland]
[ <i>Carex muricata</i>	Prickly Sedge	Fårö]
<i>Carex divulsa</i> ssp. <i>leersii</i>	Grey Sedge	scattered
<i>Carex arenaria</i>	Sand Sedge	Tofta Strand
[ <i>Carex disticha</i>	Brown Sedge	common]
<i>Carex echinata</i>	Star Sedge	Stockviken
<i>Carex hirta</i>	Hairy Sedge	Öja meadow
[ <i>Carex acutiformis</i>	Lesser Pond-sedge	2004. Kallgatburg]
<i>Carex sylvatica</i>	Wood-sedge	scattered
<i>Carex flacca</i>	Glaucous Sedge	common
<i>Carex panicea</i>	Carnation Sedge	common
[ <i>Carex extensa</i>	Long-bracted Sedge	Liste ängar]
<i>Carex hostiana</i>	Tawny Sedge	common
<i>Carex lepidocarpa</i>	Long-stalked Yellow-sedge	Kallgatburg
<i>Carex flava</i>	Large Yellow-sedge	Kallgatburg
<i>Carex demissa</i>	Common Yellow-sedge	common
<i>Carex pallescens</i>	Pale Sedge	Öja meadow
<i>Carex digitata</i>	Fingered Sedge	Kallgatburg
[ <i>Carex ornithopoda</i>	Bird's-foot Sedge	Liste ängar]
[ <i>Carex tomentosa</i>	Downy-fruited Sedge	South Gotland]
[ <i>Carex elata</i>	Tufted Sedge	common]
<i>Carex nigra</i>	Common Sedge	common

#### Poaceae

<i>Festuca arundinacea</i>	Tall Fescue	common
<i>Festuca ovina</i>	Sheep's-fescue	common
<i>Festuca rubra</i>	Red Fescue	common
<i>Lolium perenne</i>	Perennial Rye-grass	common
<i>Poa annua</i>	Annual Meadow-grass	common
<i>Poa trivialis</i>	Rough Meadow-grass	common
<i>Poa pratensis</i>	Smooth Meadow-grass	common
<i>Poa alpina</i>	Alpine Meadow-grass	scattered
<i>Dactylis glomerata</i>	Cock's-foot	common
<i>Cynosurus cristatus</i>	Crested Dog's-tail	common
<i>Briza media</i>	Common Quaking-grass	common
<i>Sesleria caerulea</i>	Blue Moor-grass	locally common
<i>Melica nutans</i>	Mountain Melick	Kallgatburg
<i>Melica ciliata</i>	Ciliate Melick	Kallgatburg
<i>Brachypodium sylvaticum</i>	False Brome	common
<i>Brachypodium pinnatum</i>	Tor-grass	common
<i>Leymus arenarius</i>	Lyme-grass	Tofta Strand
<i>Arrhenatherum elatius</i>	False Oat-grass	common
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	common
<i>Aira praecox</i>	Early Hair-grass	Ullahau
<i>Corynephorus canescens</i>	Grey Hair-grass	Ullahau
<i>Agrostis capillaris</i>	Common Bent	common

<i>Agrostis stolonifera</i>	Creeping Bent	common
<i>Ammophila arenaria</i>	Marram	Tofta Strand
<i>Calamagrostis epigejos</i>	Wood Small-reed	scattered
<i>Phleum pratense</i>	Timothy	scattered
<i>Phleum phleoides</i>	Purple-stem Cat's-tail	scattered
<i>Phleum arenarium</i>	Sand Cat's-tail	Tofta Strand
<i>Alopecurus arundinaceus</i>	Creeping Foxtail	Tofta Strand
<i>Alopecurus geniculatus</i>	Marsh Foxtail	Stockviken
<i>Phalaris arundinacea</i>	Reed Canary-grass	scattered
<i>Phragmites australis</i>	Common Reed	Locally dominant, as at Stockviken
<i>Danthonia decumbens</i>	Heath-grass	scattered
<i>Molinia caerulea</i>	Purple Moor-grass	common
<i>Nardus stricta</i>	Mat-grass	scattered

## Systematic List Number 2      Birds

The taxonomy and order of the following list largely follows Voous (1977, List of Recent Holarctic Bird Species). An indication of frequency of sightings is given by the number of days out of 6 a species was seen on – thus 4/6 means a species was noted on four days during the holiday (Arrival day not counted).

Cormorant	<i>Phalacrocorax carbo</i>	Not uncommon around the coasts. 6/6
Grey Heron	<i>Ardea cinerea</i>	Scattered throughout. 6/6
Great White Egret	<i>Ardea alba</i>	6 seen at Botvaldevik. 1/6
Mute Swan	<i>Cygnus olor</i>	Widespread. 6/6
Greylag Goose	<i>Anser anser</i>	Locally common. 6/6
Barnacle Goose	<i>Branta leucopsis</i>	Scattered. 4/6
Shelduck	<i>Tadorna tadorna</i>	Common along coasts. 6/6
Mallard	<i>Anas platyrhynchos</i>	Scattered. 5/6
Garganey	<i>Anas querquedula</i>	Stockviken. 1/6
Common Eider	<i>Somateria mollissima</i>	Widespread on coasts. Hundreds of males with many females and young off coast at Langhammars. 6/6
Velvet Scoter	<i>Melanitta fusca</i>	Several off Stora Karlsö. 2/6
Red-breasted Merganser	<i>Mergus serrator</i>	Widespread. 4/6
Goosander	<i>Mergus merganser</i>	Hogklint. 2/6
Osprey	<i>Pandion haliaetus</i>	Fårö. 1/6
Marsh Harrier	<i>Circus aeruginosus</i>	One female seen on Fårö. 1/6
Common Buzzard	<i>Buteo buteo</i>	Rather scarce – only 3 seen. 3/6
White-tailed Eagle	<i>Haliaeetus albicilla</i>	Adults seen well near Gålrum, Botvaldevik, Gnisvärd and two in tree at distance at Stockviken. 4/6
Grey Partridge	<i>Perdix perdix</i>	Närsholmen, near Stockviken. 2/6
Pheasant	<i>Phasianus colchicus</i>	Scattered. 6/6
Coot	<i>Fulica atra</i>	Stockviken. 1/6
Common Crane	<i>Grus grus</i>	2 on Fårö, and 2 at Stockviken. 2/6
Oystercatcher	<i>Haemotopus ostralegus</i>	Widespread and common. 6/6
Avocet	<i>Recurvirostra avosetta</i>	50+ at Stockviken
Ringed Plover	<i>Charadrius hiaticula</i>	Locally common. 3/6
Golden Plover	<i>Pluvialis apricaria</i>	Stora Karlsö. 1/6
Lapwing	<i>Vanellus vanellus</i>	Widespread. 6/6
Dunlin	<i>Calidris alpina</i>	Stockviken. 1/6
Common Snipe	<i>Gallinago gallinago</i>	Närsholmen. 1/6
Woodcock	<i>Scolopax rusticola</i>	Närsholmen. 1/6
Curlew	<i>Numenius arquata</i>	Scattered. 4/6
Redshank	<i>Tringa totanus</i>	Widespread. 6/6
Green Sandpiper	<i>Tringa ochropus</i>	Botvaldevik. 1/6
Black-headed Gull	<i>Larus ridibundus</i>	Widespread. 6/6
Herring Gull	<i>Larus argentatus</i>	Widespread. 6/6
Great Black-backed Gull	<i>Larus marinus</i>	Scattered, several on Stora Karlsö. 2/6
Arctic Tern	<i>Sterna paradisaea</i>	Widespread. 6/6



Little Tern	<i>Sterna albifrons</i>	Fårösund. 1/6
Guillemot	<i>Uria aalge</i>	Närsholmen, and at least 4000 at breeding colonies on Stora Karlsö – superb views! 2/6
Razorbill	<i>Alca torda</i>	At least 1000 on breeding colonies on Stora Karlsö – even better views! 1/6
Rock Dove	<i>Columba livia</i>	Widespread. 6/6
Stock Dove	<i>Columba oenas</i>	Widespread. 6/6
Woodpigeon	<i>Columba palumbus</i>	Widespread. 6/6
Cuckoo	<i>Cuculus canorus</i>	Widespread, seen most days, heard everyday. 6/6
Common Swift	<i>Apus apus</i>	Widespread. 6/6
Black Woodpecker	<i>Dryocopus martius</i>	1 seen Närsholmen, 1 calling near Öja Church. 2/6
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Widespread. 4/6
Skylark	<i>Alauda arvensis</i>	Widespread. 6/6
Swallow	<i>Hirundo rustica</i>	Widespread. 6/6
House Martin	<i>Delichon urbica</i>	Widespread. 6/6
Tree Pipit	<i>Anthus trivialis</i>	Scattered throughout. 6/6
Meadow Pipit	<i>Anthus pratensis</i>	A few in the south. 1/6
White Wagtail	<i>Motacilla alba</i>	Widespread. 6/6
Robin	<i>Erithacus rubecula</i>	2 in Visby and heard elsewhere. 2/6
Thrush Nightingale	<i>Luscinia luscinia</i>	Heard on Stora Karlsö and Stockviken. 2/6
Common Redstart	<i>Phoenicurus phoenicurus</i>	Kallgatburg. 1/6
Northern Wheatear	<i>Oenanthe oenanthe</i>	Locally common. 4/6
Blackbird	<i>Turdus merula</i>	Widespread. 6/6
Fieldfare	<i>Turdus pilaris</i>	Widespread and very common. 6/6
Song Thrush	<i>Turdus philomelos</i>	Scattered. 3/6
Reed Warbler	<i>Acrocephalus scirpaceus</i>	Klintehamn, Stockviken. 2/6
Great Reed Warbler	<i>Acrocephalus arundinaceus</i>	Stockviken. 1/6
Icterine Warbler	<i>Hippolais icterina</i>	Heard and seen everyday at Suderbys. 6/6
Lesser Whitethroat	<i>Sylvia curruca</i>	Widespread. 5/6
Common Whitethroat	<i>Sylvia communis</i>	Widespread. 3/6
Wood Warbler	<i>Phylloscopus sibilatrix</i>	West of Stockviken. 2/6
Willow Warbler	<i>Phylloscopus trochilus</i>	Common. 6/6
Collared Flycatcher	<i>Ficedula albicollis</i>	Scattered. 3/6
Coal Tit	<i>Parus ater</i>	Scarce. 2/6
Blue Tit	<i>Parus caeruleus</i>	Widespread. 6/6
Great Tit	<i>Parus major</i>	Widespread. 6/6
Nuthatch	<i>Sitta europaea</i>	Gnisvärd. 1/6
Red-backed Shrike	<i>Lanius collurio</i>	1 female at Botvaldevik, 1 male on Stora Karlsö. 2/6
Jay	<i>Garrulus glandarius</i>	Widespread. 6/6
Magpie	<i>Pica pica</i>	Widespread. 6/6
Jackdaw	<i>Corvus monedula</i>	Widespread near habitation. 6/6
Hooded Crow	<i>Corvus cornix</i>	Widespread. 6/6
Raven	<i>Corvus corax</i>	Rather scarce. 1/6
Starling	<i>Sturnus vulgaris</i>	Widespread. 6/6
House Sparrow	<i>Passer domesticus</i>	Near habitation. 6/6

Chaffinch	<i>Fringilla coelebs</i>	Widespread. 6/6
Greenfinch	<i>Carduelis chloris</i>	Widespread. 6/6
Goldfinch	<i>Carduelis carduelis</i>	Widespread. 4/6
Siskin	<i>Carduelis spinus</i>	Botvaldevik. 1/6
Linnet	<i>Carduelis cannabina</i>	Scattered. 2/6
Common Crossbill	<i>Loxia curvirostra</i>	1 seen Närsholmen. 1/6
Yellowhammer	<i>Emberiza citrinella</i>	Widespread. 6/6
Reed Bunting	<i>Emberiza schoeniclus</i>	Stockviken. 1/6

### Systematic List Number 3 Butterflies

The taxonomy and nomenclature in this list is taken from Tolman's 'Collins Field Guide to the Butterflies of Britain and Europe' (1997). An indication of abundance is given by the number of days out of 6 that a species was recorded.

Swallowtail	<i>Papilio machaon</i>	Kallgatburg, At least 5 on Fårö. 2/6
Large White	<i>Pieris brassicae</i>	Scattered. 2/6
Black-veined White	<i>Aporia crataegi</i>	Locally common. 5/6
Green-veined White	<i>Aporia napi</i>	Kallgatburg. 1/6
Wood White	<i>Leptidea sinapsis</i>	Kallgatburg. 2/6
Brimstone	<i>Gonepteryx rhamni</i>	Scattered. 4/6
Green Hairstreak	<i>Callophrys rubi</i>	Scattered. 2/6
Small Copper	<i>Lycaena phlaeas</i>	Scattered. 3/6
Little Blue	<i>Cupido minimus</i>	Widespread. 5/6
Geranium Argus	<i>Eumedonia eumedon</i>	Gnisvärd. 1/6
Common Blue	<i>Polyommatus icarus</i>	Widespread. 5/6
Peacock	<i>Inachis io</i>	Stora Karlsö. 1/6
Red Admiral	<i>Vanessa atalanta</i>	Närsholmen. 1/6
Small Pearl-bordered Fritillary	<i>Clossiana selene</i>	Kallgatburg, Mallgårds. 2/6
Glanville Fritillary	<i>Melitaea cinxia</i>	Kallgatburg, near Stockviken. 2/6
Heath Fritillary	<i>Mellicta athalia</i>	Kallgatburg, Mallgårds. 2/6
Marsh Fritillary	<i>Euphydryas aurinia</i>	Kallgatburg. 1/6
Meadow Brown	<i>Maniola jurtina</i>	Botvaldevik. 1/6
Small Heath	<i>Coenonympha pamphilus</i>	Widespread. 5/6
Speckled Wood	<i>Pararge aegeria</i>	Kallgatburg, Gnisvärd. 2/6
Grizzled Skipper	<i>Pyrgus malvae</i>	Närsholmen, Kallgatburg. 2/6
Dingy Skipper	<i>Erynnis tages</i>	Botvaldevik. 1/6
Northern Chequered Skipper	<i>Carterocephalus silvicolus</i>	Mallgårds. 1/6

### Systematic List Number 4 Mammals

Western Hedgehog	<i>Erinaceus europaeus</i>	Scattered but dead on road, esp. near Visby. 3/6
European Hare	<i>Lepus europaeus</i>	A few seen in fields west of Suderbys. 3/6
European Rabbit	<i>Oryctolagus cuniculus</i>	Scattered. 2/6
Grey Seal	<i>Halichoerus grypus</i>	11 seen on coast of Stora Karlsö. 1/6