

Gotland

A Baltic Pearl

A Greentours Tour Report

4th – 12th June 2009

Led by Terry Underhill

Day 1 Thursday 4th June to Ljugarn

The flight from Stockholm landed about 10 min late, but as Visby is a small airport it was less than 10 minutes after landing that the luggage was being stowed in the back of the mini-bus. Terry and Dot having spent four days with friends living 15km north of Stockholm and then three days on Gotland, had not only sorted out the vehicle hire but welcomed everyone with exceptionally tasty sun-ripened Gotland strawberries. They had also arranged for a meal to be available at 8 o'clock at the Strandrestaurant right on the coast at Ljugarn, therefore there was no time for stopping despite passing numerous enticing stands of Early purple and Military orchids, clumps of Swallowwort, patches of Wild strawberry and Bloody cranesbill and multi-coloured Aquilegias. Impressions of the countryside was of every shade of green, no doubt encouraged by earlier cool and moist weather, masses of Lilac from white to every shade of pink and purple, small Laburnum trees dripping with yellow racemes, Whitebeam and Hawthorn heavy with blossom, verdant verges sprinkled with yellows, whites and purples from a varied flora, and numerous churches with spires of timber.

The journey from Visby airport took about 40 minutes leaving just about enough time for everyone to be allocated their chalets at Pensionat Lovangen before supper. We noted Jackdaws, Hooded crows, Fieldfares, Swallows and Swifts, and were welcomed by a Pied flycatcher, Gotland's 'National' bird, flitting to and fro by the boundary fence near our chalets.

The 3-course meal cooked by Jacob. who had cooked for the Swedish Ambassador in Brussels for about five years, was exceptionally tasty and beautifully presented. After supper it was still bright enough at 9 o'clock for us to drive to the little harbour area, where many of the fishermen's huts have been restored with some used as day time chalets. Good sightings were had of female Goosanders and female Eiders with young. There was a lone Tufted duck along with a few Redshank, Shelduck and White wagtails. It was a perfect evening although an increasingly cool breeze brought an end to a full day. Terry distributed milk, sugar and tea bags before everyone retired to bed.

Day 2

Friday 5th June

Kallgatburg

Although the horizon showed a little blue sky the main area was of mixed cloud, threatening showers as had occurred overnight. We were welcomed by the owner Frejus, and his breakfast table at 8 o'clock. We departed at 9am.

After photographing a windmill across a field we came across one by the road, with access inside allowing visitors to examine the wooden mechanism and grain/flour hoppers and grinding wheels. Roy discovered a Small heath hiding under a stem of bedstraw. Further along the road at Ala there was a courtyard with old houses, with the church and grain store nearby. Jane spotted a Collared flycatcher, Judith and Dot thought we could hear a Nightingale but it was probably a Thrush Nightingale, while Roy tracked down Fieldfares, and David looked for suitable photographic shots. After a look both outside and inside Ala church we moved to the Old Mill site, finding specimens of Bird's nest orchid flowering under *Lonicera xylostemon*, only a metre from where we parked our mini-bus. The river, only 4-8cm deep, flowed over a continuous rocky floor which could be walked on without the water coming over the top of one's boots. From a distance it looked like Terry was 'walking on water' - no chance! The air was filled with the fragrance of crushed Water mint as we examined Water forget-me-not, and the very fine dark-leaved, white flowered, crowfoot, *Ranunculus confervoides*. Dot having crossed the stream pointed out the Marsh spurge, Early marsh orchids and Bird's eye primrose, *Primula farinosa*. Terry explained the meaning of many of the surrounding plants specific epithets. A short distance away Roy and Terry braved a heavy downpour to examine and photograph numerous Military orchids, *Orchis militaris*.

The little car park only a matter of metres along the road was made for those interested in *Orchis spitzelii*. After having found numerous perfect specimens to photograph just a few paces from our parked vehicle we squeezed through a wire fence to look at drifts of *Orchis mascula* - Early purple orchid flowering to perfection in every shade possible from white to purple along with more *Orchis spitzelii*.

With the weather deteriorating we continued down the road. Next on our route was Norrlanda Church with its 15th Century wall paintings, some depicting the events surrounding the crucifixion of Christ, and St George slaying the dragon, made a lovely retreat from the rain. The church has the largest bell in Sweden.

With lunch-time approaching, Terry laid out the picnic helped by David in the back of the mini-bus by a covered bus shelter with a long bench. After dining Judith found a good clump of Burnt orchids, *Orchis ustulata*, which delayed our departure. *Ustulata* meaning having a scorched or singed appearance. Well fed and watered, a non stop drive was made across and up-country to Kallgatburg Nature reserve, the track from the road being about 4 km long and mostly across limestone pavements. Chives, *Globularia*, Bloody cranesbill and red-leaved and yellow-flowered Sedums dominated the area, along with stunted *Juniperus communis*. We parked by the notice board. Terry and Dot led the way over stiles, through thickets, a narrow wood of Yew, along boardwalks, across bogs and along muddy paths to the Lady's slipper orchid site.

Roy was keen to see a Nutcracker, especially as Terry had seen one earlier. A possible sighting was made, along with good views of Linnets, Siskin, and a woodpecker. Dot only walked part of the way, hoping to come across a Black woodpecker - sadly as on earlier trips abroad sightings of this magnificent bird have eluded her. The rest of the group was away for nearly two hours having spent over half an hour photographing the Lady's slipper orchids, *Cypripedium calceolus*, with each bloom as perfect as could be, and also looking for birds and examining and photographing numerous plants from Marsh and Lesser butterfly orchids to Lily of the valley and white Alpine butterwort. *Kypris* is one of Venus's Greek names and *podion* the word for a little foot or slipper, hence Venus's Slipper, now Lady's Slipper. *Calceolus* means a little slipper.

We began the homeward journey about 4.30, with Joyce and Jane, having picked up a leaflet about the Churches in the Diocese of Visby, which had an informative list of the churches. We arrived back at Lovangen shortly after 6 o'clock allowing time to wash and change in preparation for another sumptuous meal at Jacob and Elin's Strandrestaurant. At around 8 o'clock Terry drove the group to Follhammer, famous for the limestone stacks. Bird highlights were flotillas of Eider ducklings escorted by one or two female adults, with some ducklings huddled together on a rock like Penguins in the Antarctic. Nearby were three female Goosanders and four Mute swans. The sky had now cleared and promised well for tomorrow, despite a cool breeze. After a little pebble hunting and botanising near the stacks we returned to Lovangen and bed.

Day 3 Saturday 6th June Fårö

We awoke to a beautiful sunny morning although there was a cool breeze, which by the time we had tucked into Frejus's breakfast, had subsided. Dead on 9 o'clock we departed with the intention of spending the day on Faro Island, The local Coop supermarket was closed and we were not prepared to hang around until 10.am so we were going to picnic without their fantastic cheesy brown rolls. We made good time until we reached Klinteklinten, a series of stone pillars with a backdrop of well worn limestone cliffs. A buzzard and a crane passed overhead while Judith spotted what she described as a golden-bodied dragonfly. Back on the road Joyce and Jane continued their 'church spotting' as we made our way to Slite where we stopped at the southern end of the lake. Here we found Goosander, Mallard, Mute swan and a Goldeneye, identified by Roy, Tufted duck spotted by David and an Avocet identified by Judith.

We had a 15min wait at the ferry terminal before embarking, long enough to use the local toilets. During the short crossing to Faro we were entertained by martins nest building and feeding young under the girders supporting the captain's bridge. The ancient agricultural field system was most noticeable with numerous small fields with stone walls or traditional fences with uprights of sawn timber, no doubt due to the island being devoid of Spruce, *Picea abies*. Other conifers being mainly Scot's pine and Juniper, although a few Larch were noted as we drove around the island. Traffic was very light, although there were a considerable number of touring motor cyclists.

Our first major stop was to photograph a series of ancient thatched barns, We watched fledgling Blue tits being fed and about to leave the nest, which was a hole in an old pollarded Ash. An adjoining field centred around a soft, wet flush had pavements of rock covered in red-leaved and golden flowered sedum. Once again the sharp eyes of Judith picked out a robust pink specimen of Early marsh orchid. Dot found a couple of *Carduus nutans* thistles. I lost count of the number of times we stopped for something, scenery, plants, birds and butterflies. As one o'clock approached we took a short track over soft-surfaced, fine sand to a beach-side hut with a large seat along one outside wall and a small portable table, which we borrowed for Terry's picnic spread. Roy spotted a Little tern which set the pattern of mixing bird watching and eating. After a relaxing hour we continued north stopping at a major crossroads and a Lambskin shop to photograph both the Swedish and Gotland (Ram) flags. Terry and Dot photographed many of the powerful motor bikes for one of their sons - a motor bike safety instructor living in Louisiana.

Crossing Ullahau sand dunes dominated by Scots pine we hunted for Linnaeus's *Linnaea borealis*. The ground cover of *Vaccinium* was studded with *Trientalis* in the shade and crunchy white lichen in the open. Although we did not find *Linnaea borealis* Jane found a fine patch of the single-flowered *Moneses uniflora*. Roy in the meantime had been teasing Ant lions in their holes by dropping a few grains of sand down the funnel shaped hole and watching them flick it out.

Next stop was Faro lighthouse, where we parked in the shade, walking the 50m to the coast. The intended short stop was extended because of close up views of a photogenic pair of Mergansers, Cormorants and female Eiders among the rocks with the males bobbing out at sea. The pebble beach was almost blinding-white and growing on it was a large, single specimen of Sea kale just coming into flower. The road continued around the north of the island and judging by the numerous parking areas among the pines the area is very popular in the summer with long stretches of beaches. Pulling off the road by a beach we disturbed a flock of about 100 Greylag geese - a mixture of adults and goslings of various ages. A pair of Shelduck came ashore led by two minute ducklings. Further along the coast we disturbed more Greylag geese, some with ten or more goslings, from among trees near the beach as we slowly drove along.

We had an hour left before Terry's intended time of being at the ferry for 6 o'clock so we only made a courtesy stop near the 3 windmills, which, being spaced out, would have taken too long to visit each one, so we quickly made our way to Langhammars with its impressive stacks. The coastal headland landscape was dominated by low growing Junipers which gave protection to a few plants such as *Hepatica*, *Galiums* and *Thyme*.

We had a 30 minute wait for the ferry, during which time Dot picked a roadside weed - *Stellaria palustris*. On landing at Farosund we looked for somewhere to eat, as the Bruna Dorren at Ljugarn closes at 7.0pm and Jacob had another engagement therefore could not provide us a meal. With no eating places at Farosund we all went into a local coop supermarket and selected a range of items for a barbeque.

Back at Lovangen it was 'all hands to the capstan' - Terry and Roy quickly lit a charcoal barbeque guarded by Joyce, then while Roy, 'supervised' by Judith, cooked the selection of meats, bowls of

rice, salad and other meats were prepared by Dot, Jane and Judith. David kept things tidy and at hand. Terry made plates of starters and laid out the table in his and Dot's chalet. Finally with beers and fruit juices we dined in comfort. Anecdotes flowed, during the meal, afterwards and while all the washing up was done, before we all retired to bed.

Day 4 Sunday 7th June Storsund & Hammars

We resisted the temptation to take breakfast outside on the terrace as a cool breeze competed with strong sun. We had passed numerous clumps of *Aquilegias* in a wide range of colours, when we stopped close to a dense patch of startling-white *Cerastium tomentosum*, Terry picked a piece and explained the swollen node and opposite simple leaves indicating the *Dianthus* family, the notched petals giving a clue for *Cerastium*, and the soft hairy tomentose leaves. In among the roadside shrubs, garden escape Tulips flourished, a regular occurrence in Gotland. In the grass was another garden escape *Ornithogalum umbellatum*. A little further on we stopped for *Anemone sylvestris* only to be drawn to a water filled ditch and adjoining marsh where *Primula farinosa* flourished along with *Pinguicula vulgaris*. There were a few yellow *Dactylorhiza ochroleuca* and purple *Dactylorhiza cruenta* with strong purple marks on both surfaces of its leaves. Roy managed with a little patience to photograph a large spider with a yellow stripe on its back.

Next 'port of call' was Storsund Reserve not far from Gothem church. Walking to the observation tower we came across a number of Northern grizzled skippers. Along the boardwalk and up two steep sets of steps and we were looking out across the lake and reed beds. Alas the cranes Terry and Dot had seen there a few days earlier were not to be seen. We watched a Marsh harrier hunting, and at the back of the lakes was a large heronry. At the foot of the tower was bog myrtle, essence of it now available as a natural insect repellent. A number of Fritillaries, including Small Pearl-bordered and Pearl-bordered and what we thought was a Bog fritillary and a heath kept us occupied for some time. Gothem church was photographed from across the fields and then close up. The interior is even more dramatic with murals from the 13th Century, one of which shows the Pope meeting Mohamad. The wooden choir stalls of the 14th Century, a large pulpit dated 1709 and a wooden font dated 1741 are just a few of the interior 'treasures'. It is said that the church bells have the best chimes in Sweden.

Retracing our steps we turned off the main road taking a track for 4km down to Hammars, where by the coast we had our picnic using a large picnic table and a bench alongside a small chalet. Much to our amazement an ice cream van appeared ringing its chimes. The lady driver somehow enticed Roy to buy a commercial pack of ten tubs of delicious Vanilla ice-cream, which most of us ate with slices of banana and a spoonful of blackberry jam.

Liste Anga reserve is only 100m away, but before climbing over the stile we examined a large clump of *Inula britannica*, a patch of *Paris quadrifolia* and very strong spikes of *Listera ovata*. A tall plant with dissect leaves was *Valeriana officinalis*. Once in the reserve we were virtually bowled over by the colourful beauty of the main meadow. It seemed almost criminal to walk in it, so we

took a track through a wood, photographing *Geranium argus* butterfly, a Small copper and some moths, and pale yellow and purple forms of *Orchis sambucina* which we know as the Elderflower orchid and which the Swedes call Adam and Eve. Back in the meadow we realised that the orchids which from a distance looked like poor forms of early purple turned out on closer examination to be good forms of the green-winged *Orchis morio*.

Back at our minibus and picnic spot we had a few minutes to get a drink of water and eat a rum/truffle and coconut/chocolate cake, which Terry attempted to convince Judith that they were low calorie - the beast! Then we followed a coastal track through small woods and across meadows and a stream, climbed over or under barbed wire, eventually reaching a stream mostly overgrown with herbaceous vegetation, particularly numerous *Juncus*, *Carex*, Flag iris, Marsh marigolds and bright green/yellow Marsh spurge, *Euphorbia palustris*. We then spotted our goal, 3 spikes of the recently discovered (2006) *Dactylorhiza longifolia* (*baltica*), Already nearly a metre tall the flower spike had yet time to become much taller than the recorded 100cm. On the way we had numerous stops to look for coastal birds, with among the normal selection Ringed plovers and a solitary Avocet. Cutting cross country on the return we disturbed a family of Shelduck with the 20 or more fluffy youngsters skimming the surface of the water as they raced out to sea followed by the adults. At another stage we became mixed up with a large frisky herd of cattle. We got our own back on these hoofed beasts by having tasty grilled slices of local beef cooked by Jacob at his Beachstrand restaurant that evening. His meal ended another lovely day.

Day 5 Monday 8th June to Tofta Strand

Having eaten a hearty breakfast, settled our bills and made our thanks and goodbyes, we set off, aiming for Tofta Strand.

The wet day plan was put into operation. - a tour of the Ostergarn headland. The little fishing hamlet of Gyngø was reached in a very short time, its twenty or more stone houses huddled together, originally built for roofs of slabs of stone. Nearby are sets of frames for drying nets and two dry stone walled fire beacons. Alas fishing is not the prime objective of the current owners. Instead they are holiday chalets. A flotilla of about ten merganser swam away to safety on our approach.

The village of Herrvik is a thriving fishing village with modern boats and equipment. From there we drove up onto the headland platform the road passing cliffs worn by the sea a long time ago, when its level was higher and the land was lower. Parts of Sweden are still rising, having been squashed down by kilometre thick layers of ice during previous ice ages. At the furthest north east point of the headland is Grogarnsberget, a perfect place for a fort being 30m or more above sea level. Excavations have shown that the main period of use was during the Viking era, but historically its use goes back to prehistoric times. Our route had been exceptionally bumpy and we, and no doubt the mini bus, deserved a rest in the main visitors' car park. Shady places on some rocks were home to a number of ferns *Asplenium trichomanes*, *Asplenium ruta-muraria* and a

Rustyback. As with most of the sites there was a toilet nearby. In the corner of the bench toilet seat a female blackbird sat on her nest, and despite 'performances' taking place within 90cm of her large nest she sat tight on her eggs. Leaving the headland we decided to visit the Trullhalsar (troll necks) grave field shown on our map as being reached from Fjaile. Despite a considerable amount of driving we abandoned that route, but not before finding ourselves at the attractive coastal hamlet of Bajju. Here in the lee of a couple of huts (where is everybody - the headland seemed completely deserted?) we had our picnic lunch. Afterwards we decided to try a northerly route from near Hammars. Eventually we reached Trullhalsar in a glade in a wood, where the 'mossies' were active (our first real encounter on the holiday with these annoying insects), and there were over 350 graves. The dead were cremated with their possessions, and then covered with a mound of large sea-washed round boulders. Some had low walls of flatter stones. Excavations showed they are of the Merovingian period, about 700AD and thought to have been associated with a nearby harbour when the sea level was higher and the land lower.

Our route from here to Tofta Strand Pensionnat took us on the road to Norrlanda fornstuga - an open air museum of 17-18th century buildings containing everyday tools and equipment. Entrance was via an honesty box and visitors were requested not to touch the many artefacts, from carpenters and blacksmiths tools, to those of the dairy, farmstead and agricultural equipment. There was even a display of stone axe and hammer heads. Outside was a 24 hour sundial.

At Tofta we were quickly given keys to our rooms. We met up at 6.30 for lists and a general natter before a delicious meal at 7.30. By then it had stopped raining and we retired to our rooms and bed, hoping for a better day as regards the weather.

Day 6 Tuesday 9th June Mallgårds flush fen & Visby

Food dominated the start of a day in which there was a dramatic improvement in the previous day's weather. There was the Tofta Strand Pensionnat's buffet breakfast on which it was easy to over indulge. Just up the lane from the Pension we disturbed a Collared flycatcher.

Our first call was down the lane signposted Mulde, which did not lead to the reserve. However just along the 140, a few kilometers south of Klintehamn, and virtually at the side of the road was the Viking stone ship of Gannarve. A pale fawn-coloured mare and her recently born foal, added a further dimension to the numerous photographs.

We then decided to visit the small fishing hamlet of Klase just north of Kvarnakershamn. Klase is a collection of wooden chalets overlooking a small square harbour, now all part of holiday homes and not a working area. Dot came across a Northern Wheatear feeding young from a nest under one of the chalets. Roy and Jane had a long discussion about a Grebe out a sea, coming to the conclusion that it was a Slavonian grebe. There was also the usual selection of coastal birds. From Klase we retraced our route eventually taking the road to Klinte. A short distance along was a track on our left which went into a mixed wood on the left and houses on the right. We were now on the boundary of Mulde nature reserve. Judith saw a red squirrel, which hid from the rest of us.

Terry went into the wood, finding a group of *Cephalanthera damasonium*. Somewhat similar to the Sword-leaved common *Cephalanthera longifolia*, but with fewer broader leaves and larger, delicate creamy-yellow flowers.

We moved onto Mallgards Flush Fen, parking at the end of long, winding track. The picnic was laid out in the luggage area at the back of the mini-bus as there were no benches, logs or rocks to sit on and the surrounding grass was tall. When everything was packed away we made the short walk over a stile and after less than 50m along a narrow path through a copse we reached the open area. There were none of the rare breed horses to be seen although most of the vegetation had been well nibbled and trampled on. Apart from numerous *Primula farinosa* in many shades of pink and white, there was Bog bean flowering in some ditches and a few *Dactylorhiza incarnata* and delicate yellow *Dactylorhiza ochroleuca*.

The afternoon was spent at Visby, parking the vehicle by the Ferry terminal. The route into the centre of the old town and up to the main shopping street is dominated by cafes and various souvenir and clothes shops.

We eventually met up at 5.45pm for the short drive back to the Pension, and within minutes we were freshened up ready for a tasty evening meal. Everyone jumped at Terry's suggestion of an evening trip to Paviken wildlife area. The low lying area with a centrally placed large lake provided good sightings of diving Caspian, Little and comic terns. Coots were dominant, but we did find a number of Great crested grebes with young.

Day 7 Wednesday 10th June Stora Karlsö

At just before 9.0 we were on the quay at Klintehamn paying for our pre-booked tickets to Stora Karlso. The sea was virtually like a mill pond but the cloud base was so low that the top of Lilla Karlso was hidden and as we approached Stora Karlso visibility was worsening by the minute. The journey takes about 30min. After the greetings by the flagpole, ordering our midday meal in the restaurant, and attending an introductory talk in the museum, we were at around 11.0am ready for the tour. Our guide was Agnetha a Swedish student studying conservation and on the island for her second year for a month with free board and lodging and a mini wage. Speaking excellent English but somewhat lacking on plant nomenclature, she took us around a section of the island. Much to everyone's delight the sun managed to burn off the cloud and we toured under a clear blue sky, with the temperature rising rapidly.

The island when purchased by a group of enthusiasts forming the Karlso Club, in the late 19th century all hunting of seabirds and egg collecting was prohibited. At that time only 20-30 Guillemots were left on the island. Today, on the cliffs, over 25,000 pairs breed along with Black Guillemots and Razorbills. Eggs are laid directly onto the rocky ledges with no two eggs alike. Willy Wohler who started the Karlso Club in 1880 organised the buying of parts of the island, owning most of it by 1887, and had the 300 sheep taken away. With support from the King and Governor the clubs ownership was secured. Willy Wohler in his eagerness to re-establish the

vegetation planted many non native trees and bushes, something later regretted. However removing soil from the largest cave to assist planting revealed valuable archeological evidence of the caves habitation over 5,000 years ago.

We managed glimpses of a Common Rosefinch and excellent views of a Red-backed shrike. Here and at other times on the holiday we had heard what we believed to be a Nightingale singing, but slightly different from those in the UK. As Nightingales are not on our check-lists we assume that we have been listening to Thrush nightingales.

Highlight of our tour had to be the noisy cliff with ledges packed with Guillemots and Razorbills - then it was up to Lighthouse with its extensive rain-water harvesting system before a walk over limestone pavements and down steps to a beach just around the corner from where we landed and the museum and restaurant. We had ordered a meal and were treated to an excellent meal in the restaurant helping ourselves from the salad bar, bread and rolls, glasses of orange or apple juice, and various sweets of tarts and pies. We were all full enough and despite the tempting appearance of a wild berry cheesecake we only had cups of coffee to end with. The return ferry left at 3.00

Instead of driving directly to Tofta Strand Pensionnat Terry turned into the Kovika Fisheries Outdoor Museum, Here was not only excellent birdwatching but a fascinating collection of buildings brought together and maintained by an enthusiast. They had even re-installed a lantern hanging from a long pole which could be swung up high and when lit acted as a beacon for fisherman out at sea. We avoided walking out onto the pebble spit, being aware that this was a likely site for nesting sea birds.

After supper we went for a stroll into the adjoining reserve, finding many Military orchids growing alongside the sandy track. There were also drifts of creeping willow some in full fluffy fruit others just about to flower. The reserve and adjoining dunes were full of Epipactis orchids, most with their heads still bent over, and were unlikely to flower for another 7-14 days. Dot found a huge drift of *Pyrola rotundifolia* subsp *rotundifolia*. There were a limited number of Early marsh orchids in the sand, and in a damp hollow *Pinguicula vulgaris* flourished.

Day 8 Thursday 11th June The South

Today an 8.40am departure as a long day to the south of the island was planned. There was a moderate breeze and the sun was shining brightly after a night of very heavy rain.

Travelling down the 140 and shortly after Klintehamn a field of poppies dotted with blue cornflowers all glowing in the sun was a sight not to be missed, likewise a windmill set against a blue sky. We had to stop for a specimen hare, which moved a short distance from us before crouching down and remaining perfectly still, hoping we would not still be able to see it, despite a hay crop only very recently having been cropped. Next major stop was Fide church with its very strong-looking square tower and the churchyard, like all of those in Gotland, meticulously maintained. There was a large hand pump which Dot could not resist trying. Jane went up the

road a little way bird watching while the rest of us peeped inside the church. The paintings were somewhat faded with age and hanging from the ceiling in front of the altar was a huge wooden circular carving with Christ on the crucifix. Was the rack of four hour glasses for the sermons to be timed? Nobody with the slightest interest in plants could pass the huge drift of Dame's violet without stopping.

Oja church was our next major stop and really deserved more than the hour we had allocated. The interior of the church was really worth looking at and some of the paintings set one wondering just what the artist had in mind.

The meadows are outstanding with vast numbers of Fragrant orchids among a carpet of typical meadow flowers. Jane walked through a small wood coming across Lesser spotted woodpeckers. The next meadow was solid with delicate white Cow parsley, *Anthriscus sylvestris*. Roy found a Black-veined white butterfly.

We passed yet more windmills before reaching Stockvicken reserve. The surrounding area was very flat and we watched skylarks and found numerous forms of *Dactylorhiza incarnata* - Early marsh orchid, Burnt Orchid and both Adder's-tongue and Moonwort ferns. Dot walked down the lane to examine a very old tall Black poplar.

Judith mentioned lunch so we departed looking for a suitable spot. Shortly after passing Vamlingbo - Lars Jonnson's museum and home. Terry saw a quiet shady spot with two picnic tables. Having laid out all the food, drinks, cups, plates and cutlery on the picnic bench and table cloth everyone was told to indulge as this was the last picnic of the tour - "everything must go".

After lunch we retraced our steps to Vamlingo and visited Lars Jonnson's museum, which is really an art gallery of some of his paintings. Superb as they were we were glad that we were not asked for the 40sek per person entrance fee. Instead of looking around the garden, we treated ourselves to coffee in the café. With Natura and a new museum building being erected, perhaps the place would make for a better visit another year.

Dot brought a leafy twig which was identified as the rare *Ulmus minor*. We were now in Wheatear country and they seemed to be on almost every other dry stone wall or bush. Muskmyr further down the road is grazed by a large herd of highland cattle. Dot braved their vicious looking horns and made her way to the hide, while the rest of the group made the most of watching a Hobby twisting and turning high above the reserve. Terry found the Fly orchid while Jane and Dot led the way on the boardwalk which goes right around the reserve. We only had time to walk less than a quarter of the circular route. Many more forms of Early marsh orchids and Lesser butterfly orchids were to be seen, plus a confusing selection of rushes. Roy and Terry found a number of butterflies to photograph and Judith spotted a Tussock caterpillar. Roy on finding a tunnel spider with a silver-white floor of fine cobweb, decided to photograph it peering out, when suddenly it shot out covering about 3cm and diving back into its burrow with an ant. This area kept us occupied for some time as a Darter dragonfly dipped all around the margin of a small pond egg laying.

Systematic List Number 1 Plants

This list is based upon those compiled by previous leaders. Species recorded previously but not seen in 2009 are enclosed with square brackets [e.g.]. Taxonomy and Nomenclature taken from Den Nordiska Floran by Stenberg & Ericsson (1993), though a newer Flora - Den Nya Nordiska Floran by Mossberg & Stenberg (2003) is recommended for its beautiful unparalleled pictures especially of sedges!

<i>Lycopodiaceae</i>	Clubmoss Family	
<i>Lycopodium annotinum</i>	Interrupted Clubmoss	Kallgatburg
<i>Lycopodium clavatum</i>	creeping, erect interrupted branches Stag's-horn Clubmoss	In dunes, Ullahau
<i>Equisetaceae</i>	Horsetail Family	
<i>Equisetum variegatum</i>	Variiegated Horsetail	Dune-slack, Tofta Strand
<i>Equisetum arvense</i>	6-8 black teeth, white band above Field Horsetail	common
<i>Equisetum palustre</i>	Sterile stems, 6 - 19 grooves and teeth Marsh Horsetail	common
[<i>Equisetum fluviatile</i>]	stems bright green, 4 - 8 grooves Water Horsetail	growing in water, rare
	stems 10 - 13 very fine grooves	
<i>Pteridophyta</i>	Ferns	
<i>Ophioglossum vulgatum</i>	Adder's-tongue	Many in Stockviken meadow
<i>Botrychium lunaria</i>	single oval leaf, fertile spike Moonwort	Many in Stockviken meadow
<i>Pteridium aquilinum</i>	single pinnate leaf, branched fertile spikes Bracken	common and dominant
[<i>Thelypteris palustris</i>]	Marsh Fern	Stora Karlsö. 2004 Gålrum]
<i>Asplenium trichomanes</i>	delicate pale green, two pinnate leaves Maidenhair Spleenwort	Stora Karlsö, and Grogarnsbergete
<i>Asplenium ruta-muraria</i>	many narrow pinnate leaves Wall Rue	common: rocks and walls]
<i>Athyrium filix-femina</i>	small two pinnate fan-shaped leaves Lady-fern	Anga Prästänge
<i>Dryopteris carthusiana</i>	Narrow Buckler-fern	Ullahau, Fårö
[<i>Dryopteris dilatata</i>]	tufted fern Broad Buckler-fern	Fårö]
[<i>Dryopteris cristata</i>]	tufted fern Crested Buckler-fern	Fårö]
<i>Polypodium vulgare</i>	tufted fern Common Polypody	Fårö
	leathery pinnate leaves	
<i>Pinaceae</i>	Pine Family	
<i>Pinus sylvestris</i>	Scots Pine	widespread
<i>Picea abies</i>	leaves: two needle, pink trunk Norway Spruce	widespread
<i>Cupressaceae</i>	Cypress Family	
<i>Juniperus communis</i>	Juniper	widespread & locally dominant
	both upright and prostrate forms	

Taxaceae

Taxus baccata
Larix decidua

Yew Family

Yew locally common at Kallgatburg
 Larch Local in some woods

Salicaceae

Salix pentandra

Salix triandra

Salix cinerea

Salix caprea

Salix repens [ssp. *repens*
 [*Salix repens* ssp. *argentea*

Salix rosmarinifolia

Populus tremula

Willow Family

Bay Willow widespread]

small tree or shrub, leaves glossy, pale beneath

Almond Willow widespread along streams]

tree or shrub, lance-shaped leaves

Grey Willow widespread

shrub, leaves obovate, hairy

Goat Willow scattered

Creeping Willow scattered in bogs

Creeping Willow scattered in mires, dune-slacks

small shrub, linear leaves rare
 common

Aspen

tree, round leaves

Myricaceae

Myrica gale

Myrtle Family

Bog Myrtle locally common in mires, Storsund

small aromatic shrub

Betulaceae

Betula pubescens

Betula pendula

Alnus glutinosa

Corylus avellana

Birch Family

Downy Birch widespread

tree or shrub, leaves ovate toothed:

Silver Birch scattered

tree, leaves irregular toothed, leaf tip acute

Alder scattered

tree, dark green leaves female cones

Hazel widespread

large, multi-stemmed shrub

Fagaceae

Quercus robur

Beech Family

Pedunculate Oak widespread

tree, peduncle 2 - 9 cm

Ulmaceae

Ulmus glabra

Ulmus minor

Elm Family

Wych Elm widespread

tree, leaves rough on upper side

Small-leaved Elm Vamlingbo - Lars Jonnson museum

Urticaceae

Urtica dioica

[*Urtica urens*

Nettle Family

Common Nettle scattered

gregarious perennial.

Small Nettle Russ Park]

Annual

Polygonaceae

[*Polygonum aviculare*

[*Persicaria maculosa*

[*Persicaria lapathifolia*

Rumex crispus

Knotweed Family

Knotgrass Bunge

procumbent annual

Redshank Bunge

Pale Persicaria Bunge

Curled Dock widespread

narrow undulate leaves

<i>Rumex palustris</i>	Marsh Dock very tall	Hammers
<i>Rumex acetosa</i>	Common Sorrel leaves sagittate	widespread
<i>Rumex acetosella</i>	Sheep's Sorrel smaller than above, leaves hastate	widespread
<i>Chenopodiaceae</i>	Goosefoot Family	
<i>Chenopodium rubrum</i>	Red Goosefoot	Tofta
<i>Atriplex littoralis</i>	Grass-leaved Orache annual, colonising in sand	scattered on coasts
<i>Atriplex prostrata</i>	Spear-leaved Orache annual, triangular leaves, often mealy	sea shore
<i>Caryophyllaceae</i>	Pink Family	
<i>Arenaria serpyllifolia</i>	Thyme-leaved Sandwort lvs. oval unstalked, petals shorter than sepals	Scattered
[<i>Moehringia trinervia</i>	Three-veined Sandwort oval leaves, 3-5 veins, small white flowers	In woodland, Oja
<i>Honckenya peploides</i>	Sea Sandwort creeping, fleshy leaves, white flowers	widespread on coast
<i>Stellaria media</i>	Common Chickweed semi-prostrate, oval leaved small white flowers	Widespread
[<i>Stellaria holostea</i>	Greater Stitchwort showy white flowers, petals notched to less than halfway	Russ Park]
<i>Stellaria graminea</i>	Lesser Stitchwort smaller flowers than above, petals notched more than halfway	scattered, in meadows
[<i>Cerastium arvense</i>	Field Mouse-ear	Stora Karlsö
<i>Cerastium fontanum</i>	Common Mouse-Ear hairy, mat-forming perenn. ascend. flower shoots	Common
[<i>Cerastium diffusum</i>	Sea Mouse-ear	Tofta Strand
[<i>Cerastium semidecandrum</i>	Little Mouse-Ear hairy annual, petals about 3/4 length of sepals	Russ Park]
[<i>Cerastium pumilium</i>	Dwarf Mouse-Ear hairy ann., smaller than above, petals as long as sepals	Russ Park]
<i>Scleranthus annuus</i>	Annual Knawel	Common in dry bare places
<i>Herniaria glabra</i>	Smooth Rupturewort procumbent, tiny green flowers	Common in dry bare places
<i>Lychnis flos-cuculi</i>	Ragged Robin petals pink with 4 spreading segments	Mallgards?
<i>Lychnis viscaria</i>	Sticky Catchfly showy clusters of purple-pink fls.	common on limestone pavement
[<i>Agrostemma githago</i>	Corncockle	Bunge, in arable field. Introduced?
<i>Silene nutans</i>	Nottingham Catchfly sticky, flowers white, drooping	Widespread
<i>Silene vulgaris</i>	Bladder Campion flowers white, calyx inflated	Tofta
<i>Silene uniflora</i>	Sea Campion petals broader than above, larger inflated calyx	Fårö, Stockvicken
[<i>Silene latifolia</i>	White Campion white flowers, notched petals	scattered]
[<i>Dianthus deltoides</i>	Maiden Pink bright pink flowers with darker centre	South Gotland]

Nymphaeaceae*Nymphaea alba*[*Nuphar lutea***Waterlily Family**White Waterlily
large showy white flowersYellow Waterlily
smaller yellow flowers

locally comm. lakes & ponds]

2004. In the river Horsnean]

Ranunculaceae*Anemone nemorosa*[*Anemone ranunculoides**Anemone sylvestris**Hepatica nobilis*[*Pulsatilla vulgaris* ssp. *gotlandica**Pulsatilla pratensis**Caltha palustris**Adonis vernalis**Ranunculus acris**Ranunculus repens*[*Ranunculus polyanthemos**Ranunculus sceleratus**Ranunculus bulbosus*[*Ranunculus sardous**Ranunculus flammula*[*Ranunculus ophioglossifolius**Ranunculus ficaria**Ranunculus baudotii*[*Ranunculus aquatilis**Ranunculus. confervoides* (*trichophyllus*)*Aquilegia vulgaris**Thalictrum minus*[*Thalictrum simplex**Thalictrum flavum***Buttercup Family**Wood Anemone
white petaloid sepals (6-12)Yellow Anemone
bright yellow flowers
Snowdrop Windflower
5 large oval petaloid sepalsHepatica
3-lobed leavesPasque Flower
large purple flowersSmall Pasque Flower
drooping dark purple flowersMarsh Marigold
kidney-shaped leaves, 5 yellow sepalsYellow Pheasant's-eye
fine pinnate leaves, lge. yellow flowersMeadow Buttercup
hairy perennial, yellow flowersCreeping Buttercup
rooting runnersstrongly branched, 5-lobed leaves,
with narrow segmentsCelery-leaved Buttercup
annual, shiny leaves, very small flowersBulbous Buttercup
hairy perennial, sepals reflexed, yellow fls.Hairy Buttercup
small hairy annual, shiny leaves, pale yellow fls.Lesser Spearwort
stems procumbent - decumbent. achenes smoothAdder's-tongue Spearwort
stems erect, achenes tuberculateLesser Celandine
Heart-shaped leaves, narrow tepals

Brackish Water-crowfoot

Deeply divided palmate leaves or spreading rigid segments

Common Water-crowfoot
white flowers, floating lvs. Wedge-shaped submerged lvs. CapillaryThread-leaved Water-crowfoot
Old mill after Alawhite flowers, leaves all capillary
Columbineviolet tepals with spurs, some pink
Lesser Meadow Rue

yellow panicle

yellow panicle, leaflets narrow

Common Meadow Rue

tall, often large stands

common: woods

Russ Park]

Common on West side of island

lvs. only, comm. woods

lvs. only, Russvätar

Common, esp. around coasts

common: marshes. Storsund

fruiting in grassland on Stora Karlsö

common: grassy places

common

Russ Park. 2004 widespread]

scattered in or near water

grassland

scattered

scattered: wet places

marsh near sea. Rare]

scattered

In coastal wet places. Tofta Strand

shallow ponds]

submerged lvs. Capillary

Old mill after Ala

woods and roadsides. Common

scattered

scattered

wet meadows, marshes, widespread

Berberidaceae
Berberis vulgaris

Berberis Family
Barberry woods, frequent
spiny shrub

Papaveraceae
Papaver rhoeas

Poppy Family
Common Poppy scattered
capsule round

Papaver dubium Long-Headed Poppy common, scattered]
capsule long

Papaver argemone Prickly Poppy common
capsule long and bristly

Chelidonium majus Greater Celandine common
perennial, small yellow flowers

Fumariaceae
[*Fumaria officinalis*

Fumitory Family
Common Fumitory agric. weed]
scrambling ann. pink fls.

Brassicaceae
Descurainia sophia

Cabbage Family
Flixweed Tofta
yellow flowers

Alliaria petiolata Garlic Mustard common
flowers white, garlic smell

Arabidopsis thaliana Thale Cress Scattered
basal leaf rosette, fruits linear, not flattened

Bunias orientalis Warty Cabbage common: roadside and
warted stems, yellow flowers waste ground

Isatis tinctoria Woad
tall, yellow flowers, clasping stem leaves

Barbarea vulgaris Common Wintercress Scattered
tall, yellow flowered cress basal leaves with 2-5 lobes

[*Barbarea stricta* Small-flowered Wintercress 2004. Widespread in wet areas]
as above but with 1-2 lobes on basal leaves

Cardamine pratensis Cuckoo-flower Common in wet areas
small perenn- white - lilac flowers

Rorippa palustris Marsh Yellow-cress Tofta Strand
Arabis hirsuta Hairy Rockcress grassland, rocks on lime, common
white flowers, long erect pods

Arabis glabra Tower Mustard Ljugarn
Tall, white flowered, leaves undivided, glabrous and glaucous

[*Alyssum alyssoides* Small Alyssum 2004]
downy annual, small yellow flowers

[*Neslia paniculata* Ball Mustard Visby
Capsella bursa-pastoris Shepherd's Purse waste ground, common
white flowers, triangular fruit

[*Erophila verna* Common Whitlow-grass Scattered
[*Thlaspi arvense* Field Pennycress agric. weed, rare
annual, white fls., winged seeds

[*Draba incana* Twisted Whitlow Grass Liste Angar]
fruit twisted when ripe

[*Hornungia petraea* Hutchinsia Dry, bare limestone rocks, scattered
Lepidium (Cardaria) draba Hoary Cress Roadside ?
Fls. in flat topped cluster

<i>Crambe maritima</i>	Sea Kale large plant, white flowers, lge. round leaves	Faro lighthouse
Resedaceae	Mignonette Family	
<i>Reseda lutea</i>	Wild Mignonette	common
[<i>Reseda luteola</i>]	Leaves pinnate, fls. yellow, 6 petals Weld: tall plant, lvs. oblong entire, fls. yellow, 5 petals	common]
Droseraceae	Sundew Family	
[<i>Drosera anglica</i>]	Great Sundew	Mallgards
Crassulaceae	Stonecrop Family	
<i>Sedum telephium</i>	Orpine	2004. Widespread]
	Large greyish often red-tinged – flowers variable	
<i>Sedum album</i>	White Stonecrop	common
	mat forming white flowers	
<i>Sedum acre</i>	Biting Stonecrop	common
	yellow flowers	
<i>Sedum reflexum</i>	Reflexed Stonecrop	common
	flat topped head of yellow flowers	
Saxifragaceae	Saxifrage Family	
[<i>Saxifraga tridactylites</i>]	Rue-leaved Saxifrage	2004?]
	reddish sticky annual	rocks and walls
<i>Saxifraga granulata</i>	Meadow Saxifrage	common in meadows
	white fls., cordate leaves	
<i>Parnassia palustris</i>	Grass-of-Parnassus	Stockviken
	solitary white flowers	
Grossulariaceae	Currant Family	
<i>Ribes spicatum</i>	Downy Currant	Scattered in woods
<i>Ribes alpinum</i>	Mountain Currant	Scattered in woods
	shrub, fls. erect clusters	
<i>Ribes uva-crispa</i>	Wild Gooseberry	Hammar
Rosaceae	Rose Family	
<i>Filipendula vulgaris</i>	Dropwort	comm. dry grassland on lime
	inflorescence of many white flowers	
<i>Filipendula ulmaria</i>	Meadowsweet	common: damp meadows
	flowers dense clusters: fragrant	
<i>Rubus saxatilis</i>	Stone Bramble	common groundcover
	creeping small white flowers	
<i>Rubus idaeus</i>	Raspberry	Liste Angar woods, scattered
	erect shrub	
[<i>Rubus caesius</i>]	Dewberry	scattered
<i>Rosa canina</i>	Dog-rose	common
	large arching shrub	
[<i>Rosa villosa(mollis)</i>]	Soft Downy Rose	Kallgatburg
	tomentose shrub, fls. deep pink, prickles straight	
[<i>Rosa sherardii</i>]	Sherrard's Downy Rose	Russ Park]
	Fls. deep pink, some prickles curved	
<i>Agrimonia eupatoria</i>	Common Agrimony	scattered

<i>Sanguisorba officinalis</i>	Great Burnet	scattered in damp places
	Perennial. Pinnate leaves, dense pink flowerhead	
<i>Sanguisorba minor</i>	Salad Burnet	dry places, scattered
	smaller paler flowers, leaflets deeply toothed	
<i>Geum rivale</i>	Water Avens	common, damp places
	pink flowers	
<i>Geum urbanum</i>	Herb Bennet	common
	yellow flowers	
[<i>Geum x intermedium</i>	(<i>Geum rivale</i> x <i>Geum urbanum</i>)	With both parents in wood, Öja
<i>Potentilla anserina</i>	Silverweed	common
	prostrate silver pinnate leaves	
<i>Potentilla argentea</i>	Hoary Cinquefoil	common
	erect, silvery leaves	
[<i>Potentilla norvegica</i>	Ternate-leaved Cinquefoil	Hoburgen
<i>Potentilla recta</i>	Sulphur Cinquefoil	scattered
[<i>Potentilla tabernaemontani</i>	mat forming	scattered
[<i>Potentilla cinerea</i>	Grey Cinquefoil	Liste Angar]
	hairy, mat forming	
<i>Potentilla erecta</i>	Tormentil	common
	creeping, flowers 4 petals	
<i>Potentilla reptans</i>	Creeping Cinquefoil	common
<i>Fragaria vesca</i>	Wild Strawberry	common
	long runners	
<i>Fragaria viridis</i>	smaller than above, short runners	South Gotland]
<i>Fragaria moschata</i>	Hautbois Strawberry	scattered
<i>Alchemilla glaucescens</i>	A Lady's-mantle	scattered
<i>Alchemilla monticola</i>	hairy leaves, 9 - 11 lobes	common]
[<i>Alchemilla plicata</i>		2004.? probably this species at
		Kallgatburg]
<i>Malus sylvestris</i>	Wild Apple	scattered
<i>Sorbus aucuparia</i>	Mountain Ash	scattered
	tree: pinnate leaves	
[<i>Sorbus rupicola</i>	shrub, leaves coarsely toothed	scattered
	white tomentose beneath	
<i>Sorbus hybrida</i>	Swedish Service Tree	common
	leaves partially pinnate, last 2 prs. free leaflets	
<i>Sorbus intermedia</i>	Swedish Whitebeam	common
	leaf lobed similar to Hawthorn	
<i>Cotoneaster integerrimus</i>	A Cotoneaster: shrub, fls. pink, fruit red	common
[<i>Cotoneaster niger</i>	A Cotoneaster	scattered
<i>Crataegus laevigata</i>	Midland Hawthorn leaves lobed, less	seen
	than halfway to midrib, styles 2	
<i>Crataegus monogyna</i>	Hawthorn	common
	leaves deeply lobed, more than halfway to midrib, 1 style	
<i>Prunus spinosa</i>	Blackthorn	common
	thorny shrub, forms dense thickets	
<i>Prunus avium</i>	Wild Cherry	Rare
[<i>Prunus cerasus</i>	Dwarf Cherry	Fårö
<i>Prunus mahaleb</i>	St. Lucie's Cherry	Invasive alien on Stora Karlsö
Fabaceae	Pea Family	
[<i>Ulex europaeus</i>	Gorse	Stora Karlsö]
	shrub, leaves spiny, yellow pea flowers	
[<i>Astragalus glycyphyllos</i>	Wild Liquorice	Fårö]
	large perennial, greenish cream flowers	

<i>Vicia cracca</i>	Tufted Vetch	common
<i>Vicia sativa</i>	Common Vetch	
	clambering perennial., dark blue flowers.	
<i>Vicia tenuifolia</i>	Fine-Leaved Vetch	scattered
	narrow leaflets, white flowers	
<i>Vicia hirsuta</i>	Hairy Tare	Visby
	small annual, pale lilac flowers	
[<i>Lathyrus niger</i>	Black Pea	Fårö
[<i>Lathyrus japonicus</i> ssp. <i>maritimus</i>	Sea Pea	Ljugarn
	prostrate, purple/blue flowers	
[<i>Lathyrus linifolius</i>	Bitter Vetch	Fårö
	slender perennial: red/purple flowers	
<i>Lathyrus pratensis</i>	Meadow Vetchling	scattered
	yellow flowers	
<i>Lathyrus palustris</i>	Marsh Pea	marshes by sea, Gothemhammar
	clambering perennial: blue/purple flowers	
<i>Melilotus altissimus</i>	Golden melilot - Ala	
<i>Medicago lupulina</i>	Black Medick	common
	yellow flowers, cluster of black curved pods	
[<i>Medicago sativa</i> ssp. <i>falcata</i>	Sickle Medick	scattered
	yellow flowers, pods sickle-shaped	
<i>Trifolium montanum</i>	Mountain Clover	scattered
	pale yellow flowers, narrow trifoliate leaves.	
<i>Trifolium repens</i>	White Clover	scattered, grasslands
	creeping, white flowers, trifoliate leaves with white crescent	
<i>Trifolium hybridum</i>	Alsike Clover	Fårö
<i>Trifolium campestre</i>	Hop Trefoil	scattered]
	flowers yellow: 20/30 florets	
<i>Trifolium dubium</i>	Lesser Yellow Trefoil	common
	flowers yellow, smaller than above: up to 12 florets	
<i>Trifolium alpestre</i>	Alpine Clover	Anga Prästänge
<i>Trifolium medium</i>	Zig-Zag Clover	scattered
<i>Trifolium pratense</i>	Red Clover	cultivated, common
	globular red flowers	
<i>Lotus corniculatus</i>	Bird's Foot Trefoil	very common
	prostrate showy yellow flowers	
<i>Tetragonolobus maritimus</i>	Dragon's Teeth	Very common
	large solitary pale yellow flowers	
<i>Anthyllis vulneraria</i>	Kidney-vetch	common in dry meadows and
rockyareas		
<i>Oxalidaceae</i>	Wood Sorrel Family	
<i>Oxalis acetosella</i>	Wood Sorrel	Some woods
	white flowers	
<i>Geraniaceae</i>	Geranium Family	
<i>Geranium sanguineum</i>	Bloody Crane's-bill	very common
	flowers bright magenta	
<i>Geranium sylvaticum</i>	Wood Crane's-bill	very common
	flowers mauvish, white centre	
<i>Geranium pyrenaicum</i>	Hedgerow Crane's-bill	scattered
<i>Geranium molle</i>	Dove's Foot Crane's-bill	common
	hairy, prostrate, pink flowers	
<i>Geranium pusillum</i>	Small-flowered Cranesbill	Faro

<i>[Geranium columbinum]</i>	Long-stalked Crane's-bill	Träskmyr
<i>Geranium lucidum</i>	leaf segments narrow, small pink flowers	
<i>Geranium robertianum</i>	Shining Crane's-bill	Stora Karlsö
	leaves round, glossy, small pink fls.	
<i>Erodium cicutarium</i>	Herb-Robert	common
	strong-smelling, fern-like lvs. pink fls.	
	Common Stork's-bill	common
	narrow pinnate lvs, pink fls.	
Linaceae	Flax Family	
<i>[Linum austriacum]</i>	erect, pale blue flowers	?
<i>[Linum catharticum]</i>	Purging Flax	common in dry, short grassy places
	small annual, white flowers	
Polygalaceae	Milkwort Family	
<i>Polygala vulgaris</i>	Common Milkwort	scattered, vg Stockvicken
	lvs. lanceolate, pointed, fls.. blue, pink or white	
<i>Polygala comosa</i>	lower leaves blunt, fls. usually pink	scattered
<i>Polygala amarella</i>	Dwarf Milkwort	scattered
	lower leaves in rosette, bitter tasting flowers	blue or pink
Euphorbiaceae	Spurge Family	
<i>Euphorbia helioscopia</i>	Sun Spurge	Roadsides, waste ground
<i>Euphorbia cyparissias</i>	Cypress Spurge	Tofta
<i>[Euphorbia esula]</i>	Leafy Spurge	Roadsides, Visby
<i>Euphorbia palustris</i>	Marsh Spurge	Scattered wet areas
	tall, grey leaves, fruit short warts	
<i>Mercurialis perennis</i>	Dog's mercury	Stora Karlsö
Aceraceae	Maple Family	
<i>Acer platanoides</i>	Norway Maple	common
	tree, leaves sharply pointed lobes	
Rhamnaceae	Buckthorn Family	
<i>Rhamnus catharticus</i>	Buckthorn	common on lime
	shrub or sm. tree, lvs. broad, finely toothed	
<i>Frangula alnus</i>	Alder Buckthorn	common: damp heaths & woods
	shrub or small tree, lvs. broad, untoothed	
Tiliaceae	Lime Family	
<i>Tilia cordata</i>	Small-leaved Lime	scattered
	trees, heart-shaped leaves	
Malvaceae	Mallow Family	
<i>Malva sylvestris</i>	Common Mallow	Faro
<i>[Malva pusilla]</i>	Small Mallow	Hoburgen
Clusiaceae	St John's Wort Family	
<i>Hypericum perforatum</i>	Perforate St John's Wort	scattered
	yellow flowers, black dots, leaves with translucent dots	
<i>Hypericum maculatum</i>	Imperforate St John's Wort	scattered
	Broader leaves, no translucent dots	

Violaceae	Violet Family	
[<i>Viola odorata</i>]	Sweet Violet	scattered
[<i>Viola hirta</i>]	Hairy Violet	scattered
[<i>Viola mirabilis</i>]		scattered
<i>Viola rivinana</i>	Common Dog Violet	Common
	blue-violet, stout creamy notched spur	
<i>Viola reichenbachiana</i>	Early Dog Violet	Faro
	paler than above, un-notched violet spur	
<i>Viola canina</i>	Heath Dog Violet	Visby and Liste Angar
	blue flowers, spurs greenish-white	
[<i>Viola pumila</i>]	Meadow Violet	Kallgatburg
	pale blue flowers, spur greenish, short	
[<i>Viola tricolor</i>]	Wild Pansy	Liste Angar]
	flowers violet, yellow or both	
[<i>Viola arvensis</i>]	Field Pansy	Liste Angar]
	small flowers, cream, sometimes tinged yellow or blue	
Cistaceae	Rock Rose Family	
<i>Helianthemum nummularia</i>	Common Rock-rose	very common on lime
	prostrate sub-shrub, yellow flowers	
[<i>Fumana procumbens</i>]	Common Fumana	South Gotland]
	spreading sub-shrub, yellow fls, linear lvs.	
Onagraceae	Willowherb Family	
<i>Epilobium angustifolium</i>	Rose Bay Willowherb	scattered
(<i>Chamerion</i>)	tall, patch-forming, flowers bright pink	
<i>Epilobium hirsutum</i>	Great Willowherb	Liste Angar,
<i>Epilobium montanum</i>	Broad-leaved Willowherb	scattered
	tall, hairy, flowers bright pink	
Cornaceae	Dogwood Family	
[<i>Cornus sanguinea</i>]	Dogwood	scattered on lime]
	shrub, white flowers	
Araliaceae	Ivy Family	
<i>Hedera helix</i>	Ivy	common
Apiaceae	Carrot Family	
[<i>Hydrocotyle vulgaris</i>]	Marsh Pennywort	scattered, damp places
	leaves circular	
<i>Sanicula europaea</i>	Wood Sanicle	woods, common
	flower clusters pale pink, greenish white	
[<i>Eryngium maritimum</i>]	Sea Holly	Liste Angar]
	spiny perenn., silvery leaves, blue flowers	
<i>Anthriscus sylvestris</i>	Cow Parsley	common, banks & hedgerows
	leaves 2-3 pinnate, rays many, white fls.	
[<i>Anthriscus caucalis</i>]	Bur Chervil	scattered
	rays few, flowers minute, fruit bur-like	
[<i>Scandix pecten-veneris</i>]	Shepherd's Needle	Fårö]
	fruit conspicuously long	
<i>Myrrhis odorata</i>	Sweet Cicely	near Tofta
<i>Pimpinella saxifraga</i>	Burnet Saxifrage	common in grassland
	lowers lvs. ovate segments, upper lvs. with linear segments	
<i>Aegopodium podagraria</i>	Ground Elder	Scattered near habitation

<i>[Berula erecta]</i>	low growing, patch forming Narrow-leaved Water Parsnip	Träskmyr
<i>[Carum carvi]</i>	sprawling, pinnate lvs. toothed segments also submerged linear leaves Caraway	Kallgatburg
<i>[Angelica sylvestris]</i>	leaves fine, aromatic Wild Angelica	scattered
<i>[Peucedanum palustre]</i>	tall, hairless, inflated sheathing stalks Marsh Hog's Fennel	Träskmyr
<i>[Pastinaca sativa]</i>	tall, stems hollow, ribbed, leaf segments lanceolate Wild Parsnip	South Gotland on lime]
<i>Heracleum sphondylium</i>	flowers yellow Hogweed	scattered
<i>Heracleum mantegazzianum</i>	tall, coarse ovate leaves, large flowers Giant Hogweed	waste ground near Norrlanda
<i>(?Heracleum sosnowskyi)</i>	Hogweed sp.	On roadsides, near Monkebus. Though similar, this large Hogweed appears not to be <i>H. mantegazzianum</i> (which has more acute leaf-tips) but probably this species. It is a non-native species established in the Baltic States but occurrence in Sweden needs confirming.)
<i>[Laserpitium latifolium]</i>	Sermountain	Stora Karlsö
<i>[Daucus carota]</i>	tall, stems of upper lvs. inflated, lvs. heart-shaped Wild Carrot	scattered
	umbels large, lower bracts pinnate or 3-forked	
<i>Pyrolaceae</i>	Wintergreen Family	
<i>Pyrola minor</i>	Common Wintergreen	Tofta Strand
<i>[Pyrola media]</i>	flowers white, style not protruding Intermediate Wintergreen	Kallgatburg]
<i>Pyrola chlorantha</i>	Style straight and slightly protruding Pale-green Wintergreen	Storsund
<i>Pyrola rotundifolia</i>	flowers greenish-yellowish-white, style protruding, curved Round-leaved Wintergreen	Ala, Tofta dunes
<i>[Orthilia secunda]</i>	flowers pure white, protruding s-shaped style One-sided Wintergreen	North of Bästeträsk
<i>Moneses uniflora</i>	one-sided spike, straight protruding style One-flowered Wintergreen	Ullahau, & Liste Angar
	flowers white, solitary, nodding	
<i>Monotropaceae</i>	Yellow Bird's Nest Family	
<i>[Monotropa hypopitys]</i>	Yellow Bird's Nest	Fårö and Liste Angar]
	yellow saprophyte in woods	
<i>Ericaceae</i>	Heath Family	
<i>Calluna vulgaris</i>	Heather	very common
<i>Ledum palustre</i>	Labrador Tea	Edge of major bogs
<i>Vaccinium vitis-idea</i>	Cowberry	common
<i>Vaccinium myrtillus</i>	prostrate shrub, lvs. glossy inrolled, petals spreading, pink/white Bilberry	common
<i>Arctostaphylos uva-ursi</i>	shrub, leaves bright green, flowers pink, mouth constricted Bearberry	common
	mat-forming to 2m, leathery leaves, petals pink, constricted	

Primulaceae	Primrose Family	
<i>Primula veris</i>	Cowslip	common
	nodding, one-sided yellow flowers	
<i>Primula farinosa</i>	Bird's Eye Primrose	damp grassy places
	flowers pink	
<i>Trientalis europaea</i>	Chickweed Wintergreen	Ullahau, Hammars, Faro
	flowers white, solitary	
<i>Glaux maritima</i>	Sea Milkwort	Follhammer
	prostrate, pale pink flowers	
[<i>Anagallis arvensis</i>]	Scarlet Pimpernel	S. Gotland]
	flowers pink or blue	
[<i>Samolus valerandi</i>]	Brookweed	S. Gotland, damp places. 2004
	flowers white in stalked spike	near Kraklingbo]
Plumbaginaceae	Sea Lavender Family	
<i>Armeria maritima</i>	Thrift	seashore
	leaves linear, flowers pink	
Oleaceae	Olive Family	
<i>Fraxinus excelsior</i>	Ash	common
	tree, leaves pinnate	
Gentianaceae	Gentian Family	
[<i>Centaureum littorale</i>]	Seaside Centaury	Tofta Strand
[<i>Gentianella amarella</i>]	Autumn Gentian	South Gotland]
	flowers dull purple in clusters up stem	
Menyanthaceae	Bogbean Family	
<i>Menyanthes trifoliata</i>	Bogbean	Storsund, Mallgårds, Kallgatburg
	leaves trefoil, fls. pink/white fringed	
Asclepiadaceae	Milkweed Family	
<i>Vincetoxicum hirundinaria</i>	Swallow-wort	common
	heart-shaped opposite leaves, flowers greenish-yellowish	
Rubiaceae	Bedstraw Family	
<i>Asperula tinctoria</i>	lower leaves whorls of 6, white fls, 3 petals	v. common
[<i>Galium boreale</i>]	Northern Bedstraw	v. common
	lvs. whorls of 4, fls. white	
<i>Galium palustre</i>	Marsh Bedstraw	Scattered
	straggling, lvs. whorls 4-5, fls. White, anthers red	
<i>Galium uliginosum</i>	Fen Bedstraw	Ala
<i>Galium verum</i>	Lady's Bedstraw	v. common
	Yellow flowers	
<i>Galium album</i>	stoloniferous, tall, dense inflorescence	common, roadside
[<i>Galium saxatile</i>]	Heath Bedstraw	Fårö]
	low, leaves whorls of 6-8, edged with forwardly-directed prickles	
<i>Galium aparine</i>	Goose Grass	scattered
	straggling and clinging with prickles	
Convolvulaceae	Bindweed Family	
[<i>Calystegia sepium</i>]	Hedge Bindweed	Visby
	large showy white flowers	

<i>[Convolvulus arvensis]</i>	Field Bindweed flowers smaller than above, pink	waste places, scattered
Boraginaceae	Borage Family	
<i>[Lithospermum officinale]</i>	Common Gromwell	Russ Park]
<i>[Lithospermum arvense]</i>	well branched, leaves with prominent side veins, white flowers. Corn Gromwell	Fårö]
<i>Echium vulgare</i>	little branched, leaves without prominent side veins, flowers creamy white Viper's-bugloss	common
<i>Symphytum x uplandicum</i>	roughly hairy, flowers pink-vivid blue Comfrey hybrid	Probably at Öja, but very blue flowers!
<i>Anchusa officinalis</i>	Alkanet	scattered
<i>Anchusa arvensis</i>	softly hairy, flowers blue-purple Bugloss	waste ground
<i>[Asperuga procumbens]</i>	short hairy ann., flowers blue, leaves wavy-edged Madwort	Langhammars
<i>Myosotis arvensis</i>	Field Forget-me-not	scattered
<i>[Myosotis stricta]</i>	annual, tiny flowers branched annual to 30cm,	Fårö]
<i>[Myosotis laxa]</i>	small blue flowers Tufted Forget-me-not	scattered]
<i>Myosotis scorpioides</i>	blue flowers, petals not notched Water Forget-me-not	wet places
<i>Cynoglossum officinale</i>	blue flowers, petals notched Hound's-tongue	Scattered
	med/tall, softly hairy, flowers dull purple	
Lamiaceae	Mint Family	
<i>Ajuga pyramidalis</i>	Pyramidal Bugle	Liste Angar
<i>[Teucrium botrys]</i>	Cut-leaved Germander	S. Gotland]
<i>[Scutellaria hastifolia]</i>	Norfolk Skullcap	Bunge
<i>[Galeopsis bifida]</i>	lvs. deeply cut, fls. pink Bifid Hemp-Nettle	S. Gotland]
<i>[Lamium album]</i>	lower lip notched White Deadnettle	S. Gotland]
<i>Lamium amplexicaule</i>	flowers white Henbit Dead Nettle	Kraklingbo-Storsund
<i>[Stachys palustris]</i>	Marsh Woundwort	Träskmyr
<i>Prunella vulgaris</i>	Self-Heal	Liste Angar
<i>Acinos arvensis (Satureja acinos)</i>	creeping, flowers violet Basil Thyme	scattered
<i>[Origanum vulgare]</i>	fls. violet, white markings on lower lip Wild Marjoram	Stora Karlsö
<i>Thymus serpyllum</i>	Breckland Thyme	Common - flowering S.Gotland
<i>[Lycopus europaeus]</i>	scattered mat forming aromatic shrub, lvs hairy all around Gipsywort	Träskmyr
<i>Mentha aquatica</i>	whorls of white bell-shaped fls. Water Mint	wet places,
	aromatic pink fls. in terminal heads	
Solanaceae	Nightshade Family	
<i>[Hyoscyamus niger]</i>	Henbane	Fårö]
	bell-shaped fls., yellow with purple veins	

<i>[Solanum dulcamara</i>	Bittersweet purple fls., red fruit	S. Gotland]
Scrophulariaceae	Figwort Family	
<i>[Verbascum densiflorum</i>	Dense-flowered Mullein	roadside]
<i>Verbascum thapsus</i>	decurrent stem lvs., Stigma elong. & spatulate Great Mullein	scattered
<i>[Scrophularia nodosa</i>	Common Figwort	Russ Park]
<i>[Chaenorhinum minus</i>	brown flowers, stems not winged Small Toadflax	weed of cultivation]
<i>Cymbalaria muralis</i>	pale purple fls., short blunt spur Ivy-leaved Toadflax	walls in Visby
<i>Linaria vulgaris</i>	scrambling perennial, small purple/yellow flowers Common Toadflax	klintehamn
<i>Veronica spicata</i>	yellow flowers, long spur Spiked Speedwell	Kallgatburg, Faro
<i>Veronica chamaedrys</i>	fls. long, blue spikes Germander Speedwell	common
<i>Veronica officinalis</i>	hairy perenn., bright blue flowers Heath Speedwell	Kallgatburg
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell	scattered
<i>Veronica beccabunga</i>	Brooklime	scattered
<i>[Veronica catenata</i>	creeping branched perenn., blue fls. Pink Water Speedwell	Kallgatburg
<i>[Veronica arvensis</i>	similar to above, pink flowers, lanceolate leaves Wall Speedwell	scattered
<i>Veronica anagallis-aquatica</i>	Blue Water Speedwell	Kallgatburg
<i>[Veronica verna</i>	Similar, blue flowers, lanceolate leaves Spring Speedwell	S. Gotland]
<i>[Veronica hederifolia</i>	Sticky, hairy pinnate leaves Ivy-leaved Speedwell	Occasional
<i>Melampyrum pratense</i>	sprawling downy annual Common Cow-wheat	scattered
<i>Melampyrum sylvaticum</i>	yellow flowers, mouth closed Small Cow-wheat	Liste Angarr
<i>Melampyrum arvense</i>	deep yellow flowers, open mouth Field Cow-Wheat	scattered, roadsides
<i>[Euphrasia stricta ssp. suecica</i>	flowers pink & yellow, bracts finely pinnate Eyebright	Anga Prästänge, endemic to Gotland
<i>Bartsia alpina</i>	Alpine Bartsia	Mallgårds Fen
<i>[Pedicularis palustris</i>	flowers & bracts purple Marsh Lousewort	South Gotland]
<i>Rhinanthus serotinus</i>	calyx pubescent, flowers pink & crimson Greater Hay-rattle	common
<i>Rhinanthus minor</i>	erect to 60cm, yellow flowers stigma exerted Hay-rattle	scattered
	less robust than above, lower lip turned down, stigma more/less included	
Globulariaceae	Globularia Family	
<i>Globularia vulgaris</i>	Common Globularia	common
	blue flower heads	

Lentibulariaceae*Pinguicula vulgaris**Pinguicula alpina**[Utricularia minor***Plantaginaceae***Plantago major**Plantago media**Plantago lanceolata**Plantago maritima**[Littorella uniflora***Caprifoliaceae***Sambucus racemosa**[Viburnum opulus**[Linnaea borealis**Lonicera xylosteum***Valerianaceae***[Valerianella locusta**[Valerianella dentata**Valeriana officinalis***Campanulaceae***Succisa pratensis**[Knautia arvensis**[Campanula rotundifolia**[Campanula persicifolia***Asteraceae***[Solidago virgaurea**Bellis perennis**[Aster tripolium**Erigeron acer**Antennaria dioica***Butterwort Family**Common Butterwort
violet flowers, white throatAlpine Butterwort
white flowersLesser Bladderwort
aquatic with bladders, small pale flowers

Common wet areas

Kallgatburg

Russ Park]

Plantain FamilyGreater Plantain
leaves broad, oval, fls. long spikes

Hoary Plantain

Ribwort Plantain
lanceolate lvs. short brown spikesSea Plantain
leaves fleshy, flowers greenish spikesShoreweed
forms submerged swards, flowers white male prominent stamen

common

Stora Karlsö, Liste Angar

common

coast

South Gotland]

Honeysuckle FamilyRed-berried Elder
inflorescence ovoid, white flowersGuelder Rose
leaves lobed, flowers white in flat corymbsTwinflower
creeping, mat-forming, fls. pendulous pinkFly Honeysuckle
shrub, pairs of small yellow flowers

Fårö

common

Ullahau, Fårö

scattered woodland margins

Valerian FamilyCommon Cornsalad
erect, tiny pale fls. fruit corky

pink flowers, fruit not corky

Common Valerian
tall, lvs. pinnate, clusters of pale pink fls.

scattered

scattered]

damp woods

Campanula Family

Devil's-bit Scabious

Field Scabious

Harebell
pale blue flowersPeach-leaved Bellflower
tall. Lanceolate leaves, large broad bells

scattered -

Stora Karlsö

scattered

scattered – just coming into flower]

Daisy Family

Goldenrod

Daisy
mat-forming white flowersSea Aster
Leaves fleshy, ray florets mauveBlue Fleabane
heads many, ray florets short, mauveMountain Everlasting
creeping, leaves white, wooly beneath, flowers white or pink

scattered

common in grass

Fårö]

Anga

common

<i>Inula britannica</i>	leaves linear pubescent, flowers yellow	Liste Angar
<i>Achillea millefolium</i>	Yarrow aromatic, white-pink flowers in flat umbels	common
<i>Tripleurospermum inodorum</i> (<i>Matricaria perforata</i>)	Scentless Mayweed	scattered
<i>Leucanthemum vulgare</i>	Ox-eye Daisy leaves dark green, ray petals white, disc yellow	scattered
[<i>Tanacetum vulgare</i>	Tansy	Gnisvärd
<i>Artemisia vulgaris</i>	Mugwort tall, leaves pinnate, silvery beneath	roadsides, common
<i>Artemisia absinthium</i>	Wormwood strongly aromatic. leaves white, downy	scattered
<i>Artemisia maritimum</i> ssp. <i>humifusa</i>	Sea Wormwood short grey perennial, aromatic	coastal endemic to Baltic Is.
[<i>Artemisia campestris</i>	Field Wormwood	scattered
<i>Tussilago farfara</i>	Coltsfoot yellow flowers, large round leaves	scattered
<i>Petasites hybridus</i>	Butterbur	Visby
<i>Senecio vulgaris</i>	Groundsel	scattered
<i>Carlina vulgaris</i> ssp. <i>stricta</i>	Carlina Thistle low spiny, flowers yellow bracts	Nr Norrlanda
<i>Carduus nutans</i>	Musk Thistle	Fårö
<i>Carduus acanthoides</i>	Wet Thistle	Liste Angar
[<i>Cirsium arvense</i>	Creeping Thistle spiny, pink flowers	grassland, scattered
[<i>Cirsium vulgare</i>	Spear Thistle spiny, pink flowers, leaves decurrent	scattered
<i>Cirsium palustre</i>	Marsh Thistle	wet places, scattered
[<i>Cirsium acaule</i>	Dwarf Thistle tall, leaves decurrent	Stora Karlsö
[<i>Centaurea scabiosa</i>	Greater Knapweed leaves deeply lobed, flowers solitary large reddish-purple	scattered
<i>Centaurea cyanus</i>	Cornflower bright blue flowers	cornfields near Oja
[<i>Cichorium intybus</i>	Chicory	Scattered
<i>Hypochoeris radicata</i>	Cat's-ear leaves hairy, pinnately lobed	Scattered
<i>Hypochoeris maculata</i>	Spotted Cat's Ear leaves spotted, flowers pale yellow	Scattered
[<i>Scorzonera humilis</i>	Viper's-grass flowers pale yellow, phyllaries in several rows	Common
<i>Tragopogon pratensis</i>	Goat's-beard yellow flowers, one row of phyllaries, grass-like leaves	Common
<i>Sonchus arvensis</i>	Perennial Sow-thistle	Scattered
<i>Sonchus oleraceus</i>	Common Sow-thistle	Scattered
[<i>Lactuca serriola</i>	Prickly Lettuce	Fårö
[<i>Mycelis muralis</i>	Wall Lettuce	Scattered
<i>Taraxacum</i> spp.	Dandelion	Common
<i>Lapsana communis</i>	Nipplewort	Visby,
[<i>Crepis praemorsa</i>	Leafless Hawk's-beard	Scattered, in old grassland, wet places
[<i>Crepis tectorum</i>	leafy stems, branched clusters of yellow flowers	2004. Scattered]
[<i>Hieraceum lactucella</i> ?	glaucus, 1-7 flower heads	Liste Angar
[<i>Hieraceum umbellatum</i>	leaves linear lance, sessile up stem	Scattered

Pilosella officinarum

Mouse-ear-Hawkweed
long runners, lemon-yellow sol. flowers.

common

MONOCOTYLEDONS

<i>Alismataceae</i> <i>Alisma lanceolatum</i>	Water Plantain Family Narrow-leaved Water Plantain	wet areas
<i>Juncaginaceae</i> <i>Triglochin palustre</i>	Arrow Grass Family Marsh Arrow Grass	Liste Angar
<i>Triglochin maritima</i>	Sea Arrow Grass leaves linear, fruit ovoid	Tofta
<i>Potamogetonaceae</i> [<i>Potamogeton gramineus</i>]	Pondweed Family Various- leaved Pondweed	Russ Park]
	submerged leaves lanceolate. Floating leaves oblong, long stalked	
<i>Zosteraceae</i> <i>Zostera marina</i>	Eel-grass Family Common Eelgrass	Washed up on beach, Tofta Strand
<i>Liliaceae</i> <i>Tofieldia calyculata</i>	Lily Family German Asphodel	marshy places
[<i>Anthericum ramosum</i> <i>Allium schoenoprasum</i>	yellow-greenish flowers white flowers, widely branched Chives	Russ Park] Scattered, common
[<i>Allium scorodoprasum</i>	cylindrical lvs. fls. purple/pink Sand Leek	2004. Mulde]
<i>Allium ursinum</i>	tall, large head of lilac-purple flowers Ramsons	Kallgatburg
<i>Allium vineale</i>	strong-smelling, carpeting. Infl. white Crow Garlic	Scattered
<i>Convallaria majalis</i>	nfl. mixed with bulbils Lily-of-the-Valley	common in woods
<i>Maianthemum bifolium</i>	patch-forming 2 ñ op. lvs. on each stem May Lily	common in woods
<i>Paris quadrifolia</i>	patch forming 2 lvs. on each stem not opposite Herb-Paris	Hammars-Liste angar
<i>Polygonatum odoratum</i>	whorl of 4 leaves, fls. star like Lesser Solomon's-seal	Scattered on limestone rocks
[<i>Polygonatum multiflorum</i>	stems angled, fls. cyl. often solitary Solomon's-seal	S. Gotland]
[<i>Asparagus officinalis</i>	flowers constricted, in clusters Wild Asparagus	Tofta, Mulde
	stems prostrate, minute leaves	
<i>Iridaceae</i> <i>Iris pseudacorus</i>	Iris Family Yellow Flag	common
	showy yellow flowers	
<i>Orchidaceae</i> <i>Cypripedium calceolus</i> were	Orchid Family Lady's-slipper	1000's in fantastic flower at Kallgatburg – we
<i>Epipactis palustris</i> Strand	Marsh Helleborine	there spot on time! Hundreds not in flower on dune-slack, Tofta

<i>[Epipactis helleborine]</i>	Broad-leaved Helleborine	Leaves noted in a variety of spots
<i>Epipactis atrorubens</i>	Dark Red Helleborine	Scattered, not in flower on sand-dunes at Tofta Strand
<i>Cephalanthera damasonium</i>	White Helleborine	In flower in Mulde Reserve
<i>Cephalanthera longifolia</i>	Sword-leaved Helleborine	Widespread in flower
<i>[Cephalanthera rubra]</i>	Red Helleborine	In flower north of Botvaldvik, and many with <i>Cephalanthera longifolia</i> and hybrid between the two species (<i>Cephalanthera x otto-hechtii</i>) north of Bästeträsk
<i>Neottia nidus-avis</i>	Bird's-nest Orchid	In flower. Scattered throughout,
<i>Listera ovata</i>	Twayblade	In flower. Widespread
<i>[Listera cordata]</i>	Lesser Twayblade	Fruiting, only 2 plants. Gothemhammar
<i>[Goodyera repens]</i>	Creeping Lady's-tresses	Leaves seen, Gothemhammar
<i>[Herminium monorchis]</i>	Musk Orchid	In flower. 2004. Common near Harma in South Gotland and also seen near Slite]
<i>Platanthera bifolia</i>	Lesser Butterfly Orchid	In flower. Widespread
<i>Platanthera chlorantha</i>	Greater Butterfly Orchid	Stockviken
<i>Gymnadenia conopsea</i>	Fragrant Orchid	In flower. Scattered
<i>[Gymnadenia odoratissima]</i>	Short-spurred Fragrant Orchid	Leaves only in mires near Klinte, Visby. 2004 in bud (probably!) at a few sites in the east]
<i>[Coeloglossum viride]</i>	Frog Orchid	A few in flower, Ardre Meadow
<i>Dactylorhiza sambucina</i>	Elder-flowered Orchid	Stora Karlsö, Liste Angar
<i>Dactylorhiza incarnata</i> var. <i>ochroleuca</i>	Early Marsh Orchid	In flower. Noted at most mires and wetlands
<i>Dactylorhiza incarnata</i> var. <i>incarnata</i>	Early Marsh Orchid	In flower. Typical pale flesh-pink form widespread. A deep pink form similar in colour to <i>cruenta</i> was very common in the south
<i>[Dactylorhiza incarnata</i> var. <i>pulchella</i>	Early Marsh Orchid	In flower. Different in colour from the UK form – diminutive – local in mires e.g. Mallgårds etc.
<i>Dactylorhiza incarnata</i> var. <i>cruenta</i>	Flecked Marsh Orchid	In flower. Locally common in many of the mires. Most easily distinguished from the rest of the early marsh group by the leaves spotted on both sides and stems and bracts heavily marked too,
<i>[Dactylorhiza lapponica]</i>		In flower. Diminutive hardly hollow-stemmed miniature 'heath-spotted' type found in the calcareous mires at Kallgatburg. 2004 – also at Mallgårds Fen]
<i>[Dactylorhiza curvifolia]</i>		In flower (just!). The northern form of 'traunsteinerii'. Karvitskallen.
<i>Dactylorhiza longifolia</i>		In flower. Formerly 'baltica'. This fantastic metre tall marsh orchid was just coming into flower in a stream on the east coast. It is not recorded from Gotland according to Delforge though it would be within the expected range of this species. There is a reference to it in Gotland (Hansen 1994) but I've yet to find the paper – so it looks like we weren't quite the first to find this species on the island!]
<i>Dactylorhiza fuchsii</i>	Common Spotted Orchid	In flower. Widespread and common
<i>[Dactylorhiza ericetorum]</i>	Heath-spotted Orchid	In flower. Near Hammars. 2004 Mallgårds Fen]
<i>[Dactylorhiza maculata]</i>		In flower 2004. Mallgårds (doubtfully distinct from previous species)
<i>Dactylorhiza longifolia</i>		1m high specimens in bog nr Hammars
<i>Orchis morio</i>	Green-winged Orchid	In flower. Common Liste Angar, Stockviken
<i>Orchis ustulata</i>	Burnt-tip Orchid	In flower. Widespread

<i>Orchis militaris</i>	Military Orchid	In flower. Widespread and quite common – one of the ‘sights of Gotland’!
<i>Orchis spitzelii</i>	Spitzel’s Orchid	Many in flower near Fjäle.
<i>Orchis mascula</i>	Early Purple Orchid	In flower Widespread and common
<i>[Anacamptis pyramidalis]</i>	Pyramidal Orchid	In flower. Botvaldvik.
<i>Ophrys insectifera</i>	Fly Orchid	In flower Stockvicken.
<i>Juncaceae</i>	Rush Family	
<i>[Juncus gerardii]</i>	Saltmarsh Rush	Fårö]
	creeping extensive patches 50cm infl. loose spreading cluster	
<i>[Juncus articulatus]</i>	Jointed Rush	Fårö]
	leaves flattened & curved, much branched inflorescence	
<i>Juncus subnodulosus</i>	Blunt-flowered Rush	Scattered in fens
<i>Juncus bulbosus</i>	Bulbous Rush	Scattered in fens
<i>Juncus bufonius</i>	Toad Rush	Scattered
	forms low patches	
<i>Luzula pilosa</i>	Hairy Woodrush	woods
	inflorescence: forking cluster of single flowers, leaves long hairs	
<i>Sparganiaceae</i>	Bur-reed Family	
<i>[Sparganium erectum]</i>	Branched Bur-reed	Träskmyr
<i>Typhaceae</i>	Reed Mace Family	
<i>Typha latifolia</i>	Reed-mace	Paviken reserve
	patch-forming 2-3m tall	
<i>Cyperaceae</i>	Sedge Family	
<i>Bolboschoenus maritimus</i>	Sea Club-rush	
	forms large stands 1.2m tall	
<i>Schoenoplectus lacustris ssp. tabernaemontani</i>	Grey Club-rush	
	1.7m tall, glaucous stems	
<i>[choenoplectus lacustris ssp. lacustris]</i>	Common Club-rush	Träskmyr
<i>Eriophorum angustifolium</i>	Common Cottongrass	scattered
	creeping stems to 75cm, 3-sided at top. Short ligule	
<i>Eriophorum latifolium</i>	Broad-leaved Cottongrass	Kallgatburg
	stems 70cm, 3-sided throughout, no ligule	
<i>[riophorum vaginatum]</i>	Hare’s-tail Cottongrass	Muskmyr
<i>Eleocharis quinqueflora</i>	Few-flowered Spike-rush	common: marshes
	to 30cm, top sheath obliquely truncated	
<i>[Eleocharis parvula]</i>	Dwarf Spike-rush	tidal mud]
	tufted, 8cm, with whitish thread-like runners ending in tubers	
<i>[Eleocharis palustris]</i>	Common Spike-rush	Stora Karlsö]
	creeping 60cm tall, top sheath squarely truncated	
<i>[Cladium mariscus]</i>	Great Fen-sedge	lake shores, common
	tall, patch-forming	
<i>Schoenus nigricans</i>	Black Bog-rush	common: damp grass
	tufted to 60cm. black inflorescence	
<i>[Schoenus ferrugineus]</i>	Brown Bog-rush	common: bogs
	shorter than above, infl. narrower, brown	
<i>[Carex vulpina]</i>	True Fox Sedge	common]
<i>[Carex spicata]</i>	Spiked Sedge	South Gotland]
<i>[Carex muricata]</i>	Prickly Sedge	Fårö]
<i>[arex arenaria]</i>	Sand Sedge	coastal sand, widespread
	creeping through sand in long lines	

[<i>Carex disticha</i>	Brown Sedge	v. common]
	creeping, taller than above	
[<i>Carex echinata</i>	Star Sedge	South Gotland]
[<i>Carex hirta</i>	Hairy Sedge	scattered
[<i>Carex acutiformis</i>	Lesser Pond Sedge	Träskmyr
	Tufted, large sedge with keeled plicate leaves and obtuse glumes	
<i>Carex sylvatica</i>	Wood-sedge	
<i>Carex flacca</i>	Glaucous Sedge	common
	creeping, leaves glaucous beneath	
[<i>Carex panicea</i>	Carnation Sedge	common
	shortly creeping, leaves glaucous both sides	
[<i>Carex extensa</i>	Long-bracted Sedge	Liste Angar]
	tufted: 40cm	
[<i>Carex hostiana</i>	Tawny Sedge	common
<i>Carex flava</i>	Large Yellow-sedge	scattered
[<i>Carex lepidocarpa</i>	Long-stalked Yellow-sedge	Liste Angar]
[<i>Carex demissa</i>	Common Yellow-sedge	common]
[<i>Carex pallescens</i>	Pale Sedge	Öja
<i>Carex digitata</i>	Fingered Sedge	Kallgatburg
[<i>Carex ornithopoda</i>	Bird's Foot Sedge	Liste Angar]
<i>Carex caryophyllea</i>	Spring Sedge	Anga Prästänge
[<i>Carex tomentosa</i>	Downy-fruited Sedge	South Gotland]
[<i>Carex elata</i>	Tufted Sedge	common]
[<i>Carex nigra</i>	Common Sedge	common]
Poaceae	Grass Family	
<i>Festuca ovina</i>	Sheep's Fescue	
<i>Festuca rubra</i>	Red Fescue	
[<i>Festuca arundinacea</i>	Tall Fescue	scattered
<i>Dactylis glomerata</i>	Cock's-foot	common
<i>Briza media</i>	Quaking-grass	common
<i>Sesleria caerulea</i>	Blue Moor-grass	scattered
<i>Melica ciliata</i>	Ciliate Melick	scattered
[<i>Melica nutans</i>	Mountain Melick	scattered
<i>Leymus arenarius</i>	Lyme-grass	common on coastal sand dunes
[<i>Helictotrichon pratense</i>	Meadow Oat-grass	scattered
[<i>Arrhenatherum elatius</i>	False Oat-grass	scattered
<i>Deschampsia flexuosa</i>	Wavy Hair-grass	scattered
<i>Holcus lanatus</i>	Yorkshire-fog	scattered
[<i>Corynephorus canescens</i>	Grey Hair-grass	Ullahau, sand dunes
<i>Ammophila arenaria</i>	Marram	common on coastal sand dunes
<i>Phleum arenarium</i>	Sand Cat's-tail	sand dunes, scattered
<i>Alopecurus arundinaceus</i>	A Foxtail	scattered around coast
<i>Phragmites australis</i>	Common Reed	common in fens, edges of lakes
<i>Poa annua</i>	Annual Meadow Grass	Common
<i>Poa nemoralis</i>	wood Meadow-grass	Common
<i>Poa pratensis</i>	Smooth Meadow-grass	Common
<i>Cynosurus cristatus</i>	Crested Dog's-tail	Common

Common Gull	<i>Larus canus</i>	Scattered around coasts. 5/8
Lesser Black-backed Gull	<i>Larus fuscus</i>	Scattered around coasts. 3/8
Herring Gull	<i>Larus argentatus</i>	few. 1/8
Great Black-backed Gull	<i>Larus marinus</i>	Scattered around coasts, 4/8
Caspian Tern	<i>Sterna caspia</i>	few 2/8
Common Tern	<i>Sterna hirundo</i>	Common over reserve lakes 7/8
Arctic Tern	<i>Sterna paradisaea</i>	1/8
Little Tern	<i>Sterna albifrons</i>	Locally common around coasts. 3/8
Guillemot	<i>Uria aalge</i>	At least 4000 on breeding colonies on Stora Karlso – superb views!
Razorbill	<i>Alca torda</i>	At least 1000 on breeding colonies on Stora Karlso – even better views!
Collared Dove	<i>Streptopelia decaocto</i>	1 heard . 1/8
Woodpigeon	<i>Columba palumbus</i>	Rather common. 8/8
Collared Dove	<i>Streptopelia decaocto</i>	Scattered. 3/8
Cuckoo	<i>Cuculus canorus</i>	heard 5/8
Common Swift	<i>Apus apus</i>	Widespread. 8/8
Great Spotted W'dpecker	<i>Dendrocopos major</i>	Widespread. 3/8
Lesser Spotted W'dpecker	<i>Dendrocopos minor</i>	Oja 1/8
Skylark	<i>Alauda arvensis</i>	Widespread. 4/8
Swallow	<i>Hirundo rustica</i>	Widespread. 8/8
House Martin	<i>Delichon urbica</i>	Widespread. 7/8
Meadow Pipit	<i>Anthus pratensis</i>	Few seen. 2/8
Rock Pipit	<i>Anthus petrosus</i>	1/8
White Wagtail	<i>Motacilla alba</i>	Widespread. 9/9
Wren	<i>Troglodytes troglodytes</i>	1 at Mallgårds. 1/8
Robin	<i>Erithacus rubecula</i>	Uncommon 2/8
Thrush Nightingale	<i>Luscinia luscinia</i>	Heard on Stora Karlsö, and at Ala. 2/8
Northern Wheatear	<i>Oenanthe oenanthe</i>	Scattered. 5/8 Very common S.Gotland
Blackbird	<i>Turdus merula</i>	Widespread. 9/9
Fieldfare	<i>Turdus pilaris</i>	Widespread and very common. 9/9
Song Thrush	<i>Turdus philomelos</i>	1 seen and 1 heard. 1/8
Blackcap	<i>Sylvia atricapilla</i>	1/8
Chiffchaff	<i>Phylloscopus collybita</i>	1 heard at Ala
Willow Warbler	<i>Phylloscopus trochilus</i>	3 heard and 1 seen
Greenish Warbler	<i>Phylloscopus trochiloides</i>	Stora Karlso 1/8
Spotted Flycatcher	<i>Muscicapa striata</i>	Widespread in low numbers. 4/8
Collared Flycatcher	<i>Ficedula albicollis</i>	4/8
Pied Flycatcher	<i>Ficedula hypoleuca</i>	2/8
Coal Tit	<i>Parus ater</i>	Scarce. 1/8
Willow Tit	<i>Parus montanus</i>	1/8
Blue Tit	<i>Parus caeruleus</i>	Few. 4/8
Great Tit	<i>Parus major</i>	Few. 3/98
Nuthatch	<i>Sitta europaea</i>	few. 2/8
Red-backed Shrike	<i>Lanius collurio</i>	2/8
Jay	<i>Garrulus glandarius</i>	Scattered. 5/8
Magpie	<i>Pica pica</i>	Widespread. 8/9

Jackdaw	<i>Corvus monedula</i>	Widespread near habitation. 9/9
Hooded Crow	<i>Corvus corone cornix</i>	Widespread. 8/9
Common Crow	<i>Corvus corvus</i>	1/8
Starling	<i>Sturnus vulgaris</i>	Widespread. 9/9
House Sparrow	<i>Passer domesticus</i>	Near habitation. 2/8
Tree Sparrow	<i>Passer montanus</i>	2/8
Chaffinch	<i>Fringilla coelebs</i>	Widespread and common. 5/8
Greenfinch	<i>Carduelis chloris</i>	1/8
Siskin	<i>Carduelis spinus</i>	1/8
Linnet	<i>Carduelis cannabina</i>	1/8
Common Rosefinch	<i>Carpodacus erythrinus</i>	Rare, Stora karlso - 1/8
Yellowhammer	<i>Emberiza citrinella</i>	Widespread.heard 3, saw 3. 3/8
Reed Bunting	<i>Emberiza schoeniclus</i>	1at Stockviken/ 1/8

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 8 that a species was recorded.

Large White	<i>Pieris brassicae</i>	1/8
Black-veined White	<i>Aporia crataegi</i>	1/8
Clouded Yellow	<i>Colias crocea/hecla</i>	single 1/8
Small Copper	<i>Lycaena phlaeas</i>	Scattered, 2/8
Little Blue	<i>Cupido minimus</i>	1 at Kallgatburg. 1/8
Holly Blue	<i>Celastrina argiolus</i>	1 seen at Oja
Cranberry Blue	<i>Vacciniina optilete</i>	1/8
Geranium Argus	<i>Eumedonia eumedon</i>	Liste Angar 1/8
Idas Blue	<i>Cyaniris semiargus</i>	1 at Angla Prästänge. 1/8
Amanda Blue	<i>Polyommatus amandus</i>	1/8
Idas Blue	<i>Polyommatus idas</i>	1/8
Common Blue	<i>Polyommatus icarus</i>	Widespread. 3/8
Small Tortoiseshell	<i>Aglais urticae</i>	
Small Pearl-bordered Fritillary	<i>Clossiana selene</i>	Sorlund 1/8
Pearl-bordered Fritillary	<i>Clossiana euphrosyne</i>	2/8
Glanville Fritillary	<i>Melitaea cinxia</i>	2/8
Heath Fritillary	<i>Mellicta athalia</i>	Sorslund 1/8
Bog Fritillary identifications	<i>Boloria eunomia</i>	1/8 Storsun - two independent
Meadow Brown	<i>Maniola jurtina</i>	Only seen once. 1/8
Small Heath	<i>Coenonympha pamphilus</i>	Widespread. 3/8
Speckled Wood	<i>Pararge aegeria</i>	Scarce, including at Kallgatburg. 2/8
Northern Wall Brown	<i>Lasiommata petropolitana</i>	1/8
Grizzled Skipper	<i>Pyrgus malvae</i>	1/8
Dingy Skipper	<i>Erynnis tages</i>	1/8
Northern Chequered Skipper	<i>Carterocephalus silvicolus</i>	noted