

# Naturetrek Tour Report

# 28 March - 4 April 2017



Arum creticum



Himantoglossum robertianum



Moni Preveli

Report and images by David Tattersfield





Iris unguicularis subsp. cretensis

Tour participants:

David Tattersfield & Duncan McNiven (leaders) with 14 Naturetrek clients

Day 1

# **Tuesday 28th March**

Our early flight from Gatwick left on time and we had clear skies until we reached Crete. Those fortunate to have a window seat enjoyed views of the Alps, Venice and the Adriatic coast. We arrived, a little early, in Heraklion, to a cold northerly wind and cloudy skies. After loading our minibuses, we set off westwards, along the New National Road. Typical of Crete's spring, the roadsides were ablaze with colour from the common weeds of the region, most notably the two varieties of the Crown Daisy *Glebionis coronaria* and the lavender thistle *Galactites tomentosa*. Once beyond the urban sprawl of the city we made a roadside stop to see the Eastern Strawberry Tree *Arbutus andrachne*, locally common in the maquis. Other common shrubs included Hairy Thorny Broom *Calicotome villosa*, Pink Cistus *Cistus creticus*, the evergreen Mastic Tree *Pistacia lentiscus* and the aromatic *Satureja thymbra* and Mediterranean Thyme *Thymbra capitata*. Our first Sardinian Warbler of the trip sang from the scrub, Hooded Crows were very common and, on the journey, we saw a few Barn Swallows, Common Swifts and a couple of Crested Larks.

We had a brief view of the Venetian port of Rethymnon, before heading inland through a remarkably green landscape to Armeni. Light rain showers had finished by the time we stopped for coffee, but, with a strong wind and a temperature of no more than 10°C, we were happy to remain indoors. Our next stop was in the dramatic Kourtaliotiko Gorge. We had timed our arrival perfectly, as the only Lammergeier of the trip glided high overhead. A dozen or so Griffon Vulture soared around the cliffs with Western Jackdaw and Red-billed Chough. A variety of plants included *Malcomia flexuosa* and its endemic larger-flowered relative *Ricotia cretica*, Yellow Asphodel *Asphodeline lutea* and Tree Spurge *Euphorbia dendroides*. We arrived at our hotel, overlooking the bay, around 6.15pm, as the skies cleared, and went out for dinner at the Mermaid Taverna, for 7.30pm.

# Day 2

# Wednesday 29th March

Before breakfast, the day got off to a good start, when two Eurasian Stone-curlews were spotted on the beach, below the hotel. After breakfast we returned to the beach, so that everyone had an opportunity to see them. We left Plakias around 10.00am and, after watching a dozen or so Griffon Vultures in the Kourtaliotiko Gorge, we headed for Spili for coffee. Further on, a roadside stop produced a range of orchids including some especially fine specimens of Giant Orchid *Himantoglossum robertianum*, Lion Mane Orchid *Ophrys leochroma* and Pink Butterfly Orchid *Anacamptis papilionacea* subsp. *heroica*. We passed through the rather unattractive town of Timbaki, with its many polytunnels, before arriving at the hilltop site of Phaestos. After exploring the archaeological site, we ate our lunch, overlooking the fertile Mesara plain and Mount Ida, beyond. At Agia Triada, there was pink *Gladiolus italicus*, more orchids such as Common Cretan Bee Orchid *Ophrys cretica* and a pure white form of Pyramidal Orchid *Anacamptis pyramidalis*.

Beyond Timbaki, we visited the small coastal lagoon at Kokkinos, which had Black-winged Stilt, Wood Sandpiper and a Green Sandpiper. Overhead flew a male Red-footed Falcon, a Sandwich Tern and a small flock of Eurasian Curlew. By far the best evidence of migration was a flock of 200 or so Black-headed Yellow Wagtail, busy feeding right in front of us. We had to call a halt and head back to Plakias, where we arrived around 7.00pm. It had been a long day but worth it. (We blamed the Stone-curlew!)

# Day 3

# **Thursday 30th March**

The morning started off sunny, but inland we were dogged by spells of steady rain. We made a brief stop at the Turkish Bridge, where Storax *Styrax officinalis* was still in bud – it was clearly a late season. Nearby fields were awash with yellow Bermuda Buttercup *Oxalis pes-caprae*. Many of the group visited Moni Preveli, while the rest of us went in search of birds. We located one Ruppell's Warbler and several Subalpine Warblers on the hillsides. Corn Buntings were singing from the wires and Alpine Swift were flying overhead from the south. Inland we made another stop in the Kourtaliotiko Gorge, adding a Bonelli's Eagle, Blue Rock Thrush, Red-rumped Swallow, Eurasian Crag Martin and the usual numbers of Red-billed Chough. *Tulipa saxatilis* and *Cyclamen creticum* were flowering from cracks in the limestone and Burnt Candytuft *Aethionema saxatilis* subsp. *cretica* was in full flower, by our feet.

We had not long arrived at our lunch spot, in the hills above Spili, when the rain started. We ate in the bus and fortunately the rain stopped an hour later. We followed a track and soon found a wonderful field-full of bright-red Crown Anemones *Amemone coronaria*. Owing to the late season, there were few orchids in flower, but we did see fine plants of Milky Orchid *Neotinea lactea*, Bumblebee Orchid *Ophrys bombyliflora* and Cretan Early Spider-orchid *Ophrys cretensis*, all early-flowering species. Widow Iris *Iris tuberosa* and Cretan Iris *Iris unguicularis* subsp. *cretensis* were also at their best. Further along the track, there were fine shows of the more typical blue and purple Crown Anemones.

Moving on to the main orchid site on the plateau, we found Sparse-flowered Orchid Orchis pauciflora, Fourspotted Orchid Orchis quadripunctata and Naked Man Orchid Orchis italica, in profusion, and large flowering plants of the Polyanthus Daffodil Narcissus tazetta, yet another bonus of the late spring. There were large patches of the Rock Tulip Tulipa saxatilis on the hill top, but the flowers were closed due to the weather conditions. Unfortunately, rain returned for the rest of the day and we returned to Plakias.

# Day 4

# Friday 31st March

The day started off very windy with persistent light rain. We found the road blocked at Sellia and followed an interesting diversion around the village. We drove west to Frangocastello, seeing Corn Buntings on the wires and a congregation of 25 Griffon Vultures. Near the coast three Western Marsh Harriers hunted over the fields and we saw a Golden Eagle, a couple of Bonelli's Eagles and a nice male Pallid Harrier. At Fragocatello, from, the low cliff-top, we observed a few waders: Little Ringed Plover, Common Sandpiper, Common Redshank and Common Greenshank, and out to sea, those with keen eyesight, could see at least six Scopoli's Shearwaters.

We headed up the twisting series of hairpin bends, alongside the Imbros Gorge, looking forward to the promised pancakes at the top. Alas, it was not to be, as the taverna was closed. Fortunately, a little further up the road, we found another taverna, where a kind young gentleman went to a lot of trouble to serve us coffee. Fortunately, I had brought our remaining picnic supplies with us and we were able to have lunch indoors. It was a case of five loaves and two fishes – in this case, the fishes were from a tin!

The rain abated, and we were able to start our descent of the Imbros Gorge, just a little later than planned. We descended the gorge slowly, every turn revealing new vistas and new plants, on the cliffs and screes. The abundant white *Saxifraga chrysospleniifolia*, yellow Tree Flax *Linum arboreum*, the delicate *Cyclamen creticum* and the

leathery-leaved, shrubby thistle *Staehelina petiolata* were just a few of the highlights. The only orchid seen was *Ophrys cretensis*. In the lower part of the gorge, we found the localised endemic shrubby spurge *Euphorbia sultanhassei*, growing on the cliffs and, as we emerged at the bottom, there were lots of Yellow Asphodel *Asphodeline lutea*. The sun was shining, and it had remained dry during the walk, which had taken us four and a half hours. We were back in Plakias and were sitting down to dinner by 8.00pm.

## Day 5

# Saturday 1st April

It was the day of our move to the north but before leaving Plakias, we explored the sand dunes and rocky headland at the other end of the bay. On the dunes there were masses of the pretty pink *Silene sericea*, as well as Sea Spurge *Euphorbia paralias* and the leaves of the Sea Daffodil *Pancratium maritimum*. The dramatic vertical cliffs of the Plakias fault were home to nesting Italian Sparrows and a male Blue Rock Thrush sang from its high perch. We explored, as far as the wartime tunnels, finding Pyramidal Orchid *Anacamptis pyramidalis*, *Ophrys heldreichii* and *Tulipa saxatilis* on the cliffs, and the curious flowers of Cretan Birthwort *Aristolochia cretica*, at their base.

We left Plakias through the Kotsifou Gorge, where we did a short walk, to see the yellow spathes of Cretan Arum *Arum creticum*. Continuing north to the late-Minoan cemetery near Armeni, where at last, we were out of the wind, we had a break for lunch, before walking around the fascinating archaeological site. Among the impressive rock-cut tombs and under a canopy of Valonia Oak *Quercus ithaburensis* subsp. *macrolepis*, were some superb Giant Orchids, large colonies of Naked Man Orchid *Orchis italica* and a selection of Bee Orchids, which included Heldreich's Orchid *Ophrys heldreichii* and Lion Mane Orchid *Ophrys leochroma* and lovely patches of the naturalised *Freesia refracta*. On the north coast, we made a diversion to the coastal village of Georgioupoulis for ice-creams. Nearby, the large freshwater resurgence had Ferruginous Duck, Eurasian Teal, a pair of Garganey, Common Sandpiper and Common Redshank, as well as the usual Coot, Moorhen, Little Grebe and Little Egret. We arrived in Hania at 6.30pm and then went out for our evening meal at one of the harbour-side tavernas.

# Day 6

# **Sunday 2nd April**

We ran through our checklist after breakfast, by which time the cloud had cleared to give a warm sunny day. Our first stop was at Agia Lake, the largest and best of Crete's freshwater wetlands. We counted at least 25 Ferruginous Duck, several Garganey and a single Black-crowned Night Heron, but the star bird here was Little Crake. We found nine of these secretive little birds, along the edges of the reeds and a single Water Rail.

We arrived on the Omalos plateau, around 12.30pm and after coffee, we had lunch by the stony fields. The hoped-for displays of *Tulipa bakeri* had yet to appear and there were only a few flowers, but the lack of tulips was amply compensated for by the wonderful display of Crown Anemones, in a variety of colours. The white *Romulea bulbocodium* was also flowering well. We took in the views of the Samaria Gorge before driving around the plateau. Woodlark, Linnet and Northern Wheatear were seen and a couple of Alpine Chough. A small ephemeral lake was full of water, with emergent Water Crowfoot and Common and Green Sandpiper and a few Ruff were feeding around its edge. A second visit to Agia Lake made us rather late back, so we ate in the new restaurant, just round the corner.

# Monday 3rd April

It was fine and sunny for our last full day. We spent the morning exploring Hania and visited the Allied War Cemetery, at the head of Souda Bay. On the Akrotiri peninsula, we visited Agia Triada Monastery and its grounds before moving further onto the headland for our final picnic, among the ancient olive trees. We had some great birding among the ancient olive trees and our discoveries included Woodlark, Woodchat Shrike, Hoopoe, and a Wryneck. By our feet were lots of colourful flowers, including Yellow Pheasant's-eye *Adonis microcarpa* subsp. *cretica* and Sickle-fruited Hypecoum *Hypecoum procumbens*.

Moving on, we found a flock of Serin and a Pied Flycatcher in the grounds of the Gouverneto Monastery, and the tiny coiled leaves of the endemic onion *Allium circinnatum* subsp. *circinnatum* on the stony hillsides beyond. Most of the group walked as far as the Cave of St. John. On the stony path there were the small iris-like flowers of the One-leaved Barbary Nut *Moraea mediterranea*. Three of us continued down to steep path and steps to the ruins of the Katholikou Monastery, set in the cliff at the bottom of a narrow gorge. Cretan Sneezewort *Achillea cretica*, Shrubby Verbascum *Verbascum arcturus* and Dittany *Origanum dictamnus* were just three of many endemic chasmophytes that we saw, growing on the walls and cliffs. Once we were all reassembled, we drove to Stavros, on the end of the peninsula, for a final ice-cream, before returning to Hania for dinner.

# Day 8

# **Tuesday 4th April**

We left Hania around 8.00am and drove to Knossos, on the edge of Heraklion's busy suburbs. This allowed time for a visit to the famous archaeological site and refreshments, before heading to the airport to check in for the return flight

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# **Species Lists**

Plants (• = endemic or near endemic to Crete; ‡ = cultivated or naturalised)

Latin name	Common name	Notes
PTERIDOPHYTES	FERNS AND FERN ALLIES	
Aspleniaceae	Spleenwort Family	
Asplenium ceterach	Rustyback	Rock crevices. Common
Asplenium onopteris	Acute-leaved Spleenwort	Shaded banks. Uncommon
Asplenium trichomanes subsp. quadrivalens	Maidenhair Spleenwort	Rock crevices. Uncommon
Dennstaedtiaceae	Bracken Family	
Pteridium aquilinum	Bracken	Locally common
Dryopteridaceae	Buckler-fern Family	
Dryopteris pallida	Pale Buckler-fern	Shaded cliffs. Imbros Gorge
Equisetaceae	Horsetail Family	
Equisetum ramosissimum	Branched Horsetail	Hedges
Equisetum telmateia	Giant Horsetail	Wet areas. Agia
Polypodiaceae	Polypody Family	
Polypodium cambricum	Southern Polypody	Shaded cliffs. Imbros Gorge
Pteridaceae	Maidenhair Fern Family	
Adiantum capillus-veneris	Maidenhair Fern	Damp cliffs
Cheilanthes acrostica	Scented Cheilanthes	Rock crevices
Selaginellaceae	Lesser Clubmoss Family	
Selaginella denticulata	Mediterranean Clubmoss	Damp earth
Woodsiaceae	Lady-fern Family	
Athyrium filix-femina	Lady-fern	Shaded cliff. Imbros Gorge
GYMNOSPERMS	CONIFERS AND ALLIES	
Araucariaceae	Monkey-puzzle Family	
Araucaria heterophylla ‡	Norfolk Island Pine	Cultivated. Coastal
Cupressaceae	Juniper Family	
Cupressus sempervirens forma. horizontalis	Cypress	Common. Sea-level to treelir
Cupressus sempervirens subsp. sempervirens ‡	Italian Cypress	Cultivated
, Juniperus oxycedrus subsp. macrocarpa	Sea Juniper	Coastal
Juniperus oxycedrus subsp. oxycedrus	Prickly Juniper	Frequent. Mountains
Juniperus phoenicea subsp. phoenicea	Phoenicean Juniper	Occasional. Lowland
Ephedraceae	Joint-pine Family	
Ephedra foeminea	A Joint-pine	Cliffs. Imbros Gorge
Pinaceae	Pine Family	
Pinus halepensis subsp. brutia	Calabrian Pine	Frequent native tree
Pinus pinea ‡	Stone Pine	Cultivated near coasts

Latin name	Common name	Notes
ANGIOSPERMS	FLOWERING PLANTS	
DICOTYLEDO	DNS	
Acanthaceae	Bear's-breech Family	
Acanthus spinosus	Spiny Bear's-breech	Frequent
Adoxaceae	Moschatel Family	
Sambucus nigra ‡	Elder	Naturalised around villages
Aizoaceae	Dewplant Family	
Carpobrotus edulis var.edulis ‡	Yellow Hottentot-fig	Coastal alien
Amaranthaceae	Goosefoot Family	
Amaranthus retroflexus ‡	Pigweed	Weedy places
Beta vulgaris subsp. maritima	Sea Beet	Maritime sand
Chenopodium album	Fat-hen	Waste areas
Chenopodium murale	Nettle-leaved Goosefoot	Waste areas
Salsola kali	Prickly Saltwort	Plakias beach
Suaeda vera	Shrubby Sea-blite	Coastal rocks
Anacardiaceae	Sumach Family	
Pistacia lentiscus	Mastic Tree	Common in maquis
Pistacia terebinthus	Turpentine Tree	Frequent in maquis and gorges
Schinus molle ‡	Californian Pepper Tree	Cultivated
Apiaceae	Carrot Family	
Crithmum maritimum	Rock Samphire	Maritime rocks
Daucus carota	Wild Carrot	Frequent
Daucus guttatus	A Wild Carrot	Coastal sand. Plakias
Eryngium campestre	Field Eryngo	Common
Eryngium creticum	Cretan Eryngo	Frequent
Eryngium maritimum	Sea Holly	Sand dunes
Ferula communis	Giant Fennel	Common
Foeniculum vulgare subsp. piperatum	Fennel	Common
Lagoecia cuminoides	Fluffy Thimbleweed	Rocky phrygana
Oenanthe pimpinelloides	Corky-fruited Water Dropwort	Moist woodland and fields
Orlaya daucoides	An Orlaya	Frequent
Pseudorlaya pumila	Dune Carrot	Sand dunes. Plakias
Scandix pecten-veneris	Shepherd's-needle	Common
Smyrnium olusatrum	Alexanders	Common
Smyrnium perfoliatum subsp. perfoliatum	Perfoliate Alexanders	Locally common
Tordylium apulum	Mediterranean Hartwort	Common
Torilis leptophylla Torilis nodosa	A Bur-parsley Knotted Bur-parsley	Frequent Common
Apoc/m2020	Poriwinkle Family	
Apocynaceae Nerium oleander	Periwinkle Family	Divorbada Diantad an raadaidaa
Nerium oleander Plumeria rubra ‡	Oleander	Riverbeds. Planted on roadsides Cultivated
Vinca major ‡	Frangipani Greater Periwinkle	Garden escape
Araliaceae	Ivy Family	
Hedera helix		Common
	lvy	Common

Aristolochiaceae Aristolochia cretica •

#### Asteraceae

Achillea cretica Achillea ligustica Aetheorhiza bulbosa Anthemis arvensis Anthemis chia Anthemis rigida Artemisia arborescens Atractylis cancellata Bellis annua Bellis perennis Bellis sylvestris Bellium minutum Calendula arvensis Carduus argentatus Carduus pycnocephalus Carlina corymbosa subsp. curetum • Carlina corymbosa subsp. graeca Carlina gummifera Carthamus lanatus subsp. baeticus Centaurea argentea subsp. macrothysana • Centaurea calcitrapa Centaurea idaea • Centaurea poculatoris • Centaurea raphanina subsp. raphanina • Centaurea redempta • Centaurea solstitialis Centaurea spinosa Centaurea spruneri subsp. minoa • Chondrilla juncea Cichorium intybus Cichorium spinosum Conyza bonariensis ‡ Crepis auriculifolia • Crepis cretica • Crepis vesicaria Crupina crupinastrum Cynara cornigera Cynara scolymus ‡ Dittrichia graveolens Dittrichia viscosa Echinops spinossisimus Eupatorium adenophorum ‡ Evax pygmaea Filago pyramidata Galactities tomentosa Geropogon glaber Glebionis coronaria var. coronaria Glebionis coronaria var. discolor Glebionis segetum

#### Common name

Birthwort Family Cretan Birthwort

#### Daisy Family

Cretan Sneezewort Southern Yarrow Tuberous Hawk's-beard Corn Chamomile Greek Chamomile Rayless Chamomile Shrubby Wormwood Cage Thistle Annual Daisy Daisy Southern Daisy

Field Marigold

Plymouth Thistle A Flat-topped Carline Thistle A Flat-topped Carline Thistle Pine Thistle Woolly Safflower A Knapweed Red Star-thistle

Yellow Star-thistle Spiny Knapweed

**Rush Skeletonweed** Chicory Spiny Chicory Argentine Fleabane A Hawk's-beard Cretan Hawk's-beard Beaked Hawk's-beard Crupina A Wild Artichoke Globe Artichoke Aromatic Inula Stink Aster Spiniest Globe Thistle A shrubby Hemp-agrimony Evax **Broad-leaved Cudweed** Galactites Slender Salsifv Crown Daisy Crown Daisy Corn Marigold

#### Notes

Locally common

Katholikou gorge Frequent Widespread Frequent. Fallow fields Common Common Roadsides near Souda Frequent in phrygana Frequent in phrygana Common Common Plakias headland Common Locally common below cliffs Rocky places. Waste ground Rocky places Rocky places Phrygana and fallow fields Rocky places Imbros Gorge Occasional Rock crevices in phrygana Cliffs. Imbros Gorge Common on rocks Imbros Gorge Occasional North coast beaches Fallow fields Sandy and waste places Roadsides Common Frequent on roadsides Cliffs and rocky places Rocky places Olive groves and stony places Rocky places and roadsides Rocky places Cultivated Common Common Common Roadsides below Lakki Frequent Common Common Plakias headland Common Common Frequent

Hedypnois cretica Helichrysum stoechas subsp. barrelieri Helichrysum microphyllum Helichrysum orientale Helminthotheca echioides Hypochaeris achyrophorus Hypochaeris cretensis Hypochaeris glabra Hypochaeris radicata Inula candida subsp. candida • Lactuca acanthifolia Lactuca serriola Lamyropsis cynaroides Leontodon tuberosus Matricaria recutita Notobasis svriaca Onopordum bracteatum subsp. creticum • Onopordum tauricum Otanthus maritimus Pallenis spinosa Phagnalon graecum Picnomon acarna Ptilostemon chamaepeuce Rhagadiolus stellatus Reichardia picroides Scolymus hispanicus Scorzonera cretica • Senecio rupestris Senecio vulgaris Silybum marianum Sonchus asper Sonchus bulbosus subsp. microcephalus Sonchus oleraceus Staehelina fruticosa Staehelina petiolata • Tanacetum parthenium ‡ Tolpis barbata Tragopogon porrifolius Urospermum picroides Xanthium spinosum ‡ Xanthium strumarium ‡ Xeranthemum inapertum

Berberidaceae Berberis cretica

Bignoniaceae Jacaranda ovalifolia ‡

Boraginaceae Anchusa hybrida Anchusa aegyptiaca

## Common name

Scaly Hawkbit Golden Cassidony A Curry Plant Eastern Everlastingflower **Bristly Oxtongue** Mediterranean Cat's-ear Southern Cat's-ear Smooth Cat's-ear Common Cat's-ear Acanthus-leaved Lettuce **Prickly Lettuce Tuberous Hawkbit** Scented Mayweed Syrian Thistle Cretan Cotton Thistle Cottonweed Spiny Golden-star Shrubby Cudweed Yellow-spine Thistle Shrubby Ptilostemon Star Hawkbit A Reichardia Spanish Oyster Plant Cretan Viper's-grass Rock Groundsel Groundsel Milk Thistle Prickly Sow-thistle Tuberous Hawk's-beard Smooth Sow-thistle Feverfew Tolpis Salsify **Prickly Goldenfleece** Spiny Cocklebur Cocklebur Xeranthemum

Barberry Family Cretan Barberry

Jacaranda Family Jacaranda

Borage Family Wavy-leaved Anchusa Eastern Alkanet Phrygana and fallow fields Rocky places Rocky places in mountains Cliffs. Katholikou Olive groves and fallow fields Rocky places Widespread Rocky places Rocky places Katholikou Gorge Katholikou Gorge. Aegean area endemic Waste areas Rocky places Phrygana Roadsides near sea-level Common. Roadsides and waste areas Coastal sand and rocky places Roadsides and rocky places Sand dunes Common Rocks, cliffs and walls Stony ground and roadsides Cliffs and rocky banks Common Rocky places and coastal sand Waste areas Cliffs Kotsifou Gorge Common Common. Waste areas Waste areas Widespread Waste areas Cliffs Cliffs Occasional. Roadsides Occasional in phrygana Common Disturbed ground Alien weed Alien weed Stony phrygana

Cultivated

Mountains

Roadsides Dry places near sea-level

Anchusa italica Anchusa variegata Borago officinalis Cerinthe major Cynoglossum creticum Echium angustifolium Echium italicum subsp. biebersteinii Echium plantagineum Myosotis incrassata Onosma erectum Onosma graecum Symphytum creticum

### Brassicaceae

Aethionema saxatile subsp. creticum Alyssum simplex Arabidopsis thaliana Arabis verna Aubrieta deltoidea Biscutella didyma Brassica cretica subsp. cretica Brassica nigra ‡ Cakile maritima Capsella bursa-pastoris Cardamine hirsuta Coronopus didymus Erophila verna Eruca sativa Erucaria hispanica Erysimum candicum subsp. candicum • Erysimum raulinii • Hirschfeldia incana Lepidium draba Lunaria annua subsp. pachyrhiza Malcolmia chia Malcolmia flexuosa subsp. naxensis Matthiola sinuata Matthiola tricuspidata Nasturtium officinale Ricotia cretica • Sinapis alba Sisymbrium officinale

**Cactaceae** Opuntia ficus-indica ‡

#### Campanulaceae

Campanula creutzbergii • Campanula erinus Campanula saxatilis subsp. saxatilis • Campanula tubulosa • Legousia pentagonia Legousia speculum-veneris

#### Common name

Large Blue Alkanet Variegated Anchusa Borage Honeywort Blue Hound's-tongue Narrow-leaved Bugloss Pale Bugloss Purple Viper's Bugloss A Forget-me-not A Golden-drops A Golden-drops Cretan Comfrey

### **Cabbage Family**

Burnt Candytuft An Alison Thale Cress Spring Rock-cress Aubretia **Buckler Mustard** Cretan Cabbage Black Mustard Sea Rocket Shepherd's-purse Hairy Bitter-cress Lesser Swine-cress Common Whitlow-grass Garden Rocket Spanish Mustard A Treacle Mustard A Treacle Mustard Hoary Mustard Hoary Cress Honesty A Malcomia A Malcomia Sea Stock Three-horned Stock Water-cress Ricotia White Mustard Hedge Mustard

#### Cactus Family Prickly Pear

### **Bellflower Family**

Annual Bellflower

Eastern Venus's-looking-glass Large Venus's-looking-glass

#### Notes

Roadsides Imbros Gorge Weedy places Turkish Bridge Common Common near coast Common Common Rocky places Mountain rocks Armeni Minoan Cemetery Shady cliffs

Dry rocky places Dry rocky places Common Frequent Omalos Common Imbros Gorge Roadsides Plakias beach Common Common Garden weed Common Olive groves and fallow fields Fallow fields Imbros Gorge Imbros Gorge Fallow fields and roadsides Armeni Occasional Phrygana near sea-level Rocks and walls near sea-level Kourtaliotiko Gorge Coasts Wet ditches and streams Gorges and screes Roadsides Weedy places

#### Cultivated and naturalised

Gouverneto walls Frequent Walls of Katholikou Plakias headland Rocky places Rocky places

Latin name	Common name	Notes
Petromarula pinnata•	Petromarula	Common
Cannabaceae	Hackberry and Hemp Family	
Celtis tournefortii	Oriental Hackberry	Imbros Gorge
Capparaceae	Caper Family	
Capparis spinosa	Caper	Frequent on cliffs
Caprifoliaceae	Honeysuckle Family	
Centranthus calcitrapa	Annual Valerian	Rocky places
Centranthus ruber ‡	Red Valerian	Walls
Fedia cornucopiae	Fedia	Rocky places
Knautia integrifolia	A Scabious	Occasional in phrygana
Lomelosiabrachiata	Tremastelma	Rocky places
Lonicera etrusca	Etruscan Honeysuckle	Occasional
Valeriana asarifolia •	Cretan Valerian	Cliffs and rocky places
Valerianella coronata	A Corn Salad	Rocky places
Valerianella echinata	A Corn Salad	Rocky places
Caryophyllaceae	Pink Family	
Cerastium comatum	Levantine Mouse-ear	Occasional
Cerastium glomeratum	Sticky Mouse-ear	Omalos
Cerastium scaposum •	Cretan Mouse-ear	Locally common
Dianthus fruticosus subsp. creticus •	A Shrubby Pink	Cliffs. Katholikou
Moenchia graeca	An Upright Chickweed	Frequent
Paronychia macrosepala	A Paronychia	Frequent
Petrorhagia dianthoides •	A Tunic Flower	Imbros Gorge
Petrorhagia velutina	Kohlrauschia	Frequent. Rocky places
Sagina apetala	Annual Pearlwort	Common
Silene behen	Hairless Catchfly	Coastal sand. Rocky places
Silene bellidifolia	Daisy-leaved Catchfly	Waste areas
Silene colorata	Mediterranean Catchfly	Common
Silene cretica	Cretan Catchfly	Frequent
Silene dichotoma	Forked Catchfly	Gious Kambos and Melambes
Silene gallica	Small-flowered Catchfly	Common
Silene gigantea		Cliffs. Kotsifou Gorge
Silene vulgaris	Bladder Campion	Frequent
Stellaria media	Common Chickweed	Common. Weedy places
Cistaceae	Rock-rose Family	
Cistus creticus	Pink Cistus	Common
Cistus monspeliensis	Narrow-leaved Cistus	Frequent in maquis
Cistus parviflorus	Small-flowered Cistus	Local in maquis
Cistus salvifolius	Sage-leaved Cistus	Locally common
Fumana arabica	Arabian Fumana	Common. Rocky places
Fumana thymifolia	Thyme-leaved Fumana	Common. Rocky places
Convolvulaceae	Bindweed Family	2
Convolvulus althaeoides	Mallow-leaved Bindweed	Common
Convolvulus arvensis	Field Bindweed	Frequent. Waste places
Convolvulus elegantissimus	Elegant Bindweed	Frequent in phrygana
Convolvulus oleifolius	Olive-leaved Bindweed	Dry rocky places
Convolvulus siculus	Small Blue Bindweed	Rocky places

Cuscuta epithymum Ipomea indica ‡

### Crassulaceae

Rosularia serrata Sedum acre Sedum album Sedum amplexicaule subsp. tenuifolium Sedum creticum var. monocarpicum • Sedum laconicum Sedum litoreum Sedum praesidis • Sedum rubens Sedum sediforme Umbilicus horizontalis Umbilicus parviflorus

**Cucurbitaceae** Bryonia cretica Ecballium elaterium

Ericaceae Arbutus andrachne Arbutus unedo Erica arborea Erica manipuliflora

### Euphorbiaceae

Euphorbia acanthothamnos Euphorbia chamaesyce Euphorbia characias subsp. characias Euphorbia dendroides Euphorbia exigua Euphorbia helioscopia Euphorbia paralias Euphorbia peplus Euphorbia sultan-hassei • Mercurialis annua Ricinus communis ‡

#### Fabaceae

Acacia cyanophylla ‡ Acacia pycnantha ‡ Acacia retinoides ‡ Anagyris foetida Anthyllis hermanniae Anthyllis tetraphylla Anthyllis vulneraria subsp. rubriflora Astragalus angustifolius Bituminaria bituminosa Calicotome villosa Ceratonia siliqua Cercis siliquastrum ‡

#### Common name

Common Dodder A Morning Glory

#### **Stonecrop Family**

Biting Stonecrop White Stonecrop

**Coastal Stonecrop** 

Red Stonecrop Mediterranean Stonecrop A Pennywort Yellow Pennywort

**Cucumber Family** White Bryony Squirting Cucumber

Heather Family Eastern Strawberry Tree Strawberry Tree Tree Heather Autumn Heather

### **Spurge Family**

Greek Spiny Spurge Small Spurge Large Mediterranean Spurge Tree Spurge Dwarf Spurge Sun Spurge Sea Spurge Petty Spurge A Tree Spurge Annual Mercury Castor-oil-plant

#### **Pea Family**

Blue-leaved Wattle Golden Wattle Swamp Wattle Bean Trefoil Herman's Kidney Vetch Bladder Vetch A Kidney Vetch A Kidney Vetch A Milk-vetch Pitch Trefoil Hairy Thorny Broom Carob Judus Tree

#### Notes

Frequent parasite Cultivated

Cliffs Rocks and walls Rocky places Rocky places Cliffs Rocky mountain slopes Rocky places near the sea Rocky places near the sea Rocky places Rocky places Shaded cliffs Georgioupolis

Frequent Waste places

Local in maquis Common in maquis Common in maquis Locally common. Autumn-flowering

Common Bare ground Widespread Maritime cliffs Bare ground Widespread Maritime sand Bare ground Cliffs. Imbros Gorge Common Frequent naturalised weed

Cultivated Cultivated Cultivated Scrub and waste areas Occasional Common Common Common above Omalos Common Common Common Frequently cultivated

Chamaecytisus creticus Coronilla scorpioides Ebenus cretica • Genista acanthoclada Hippocrepis biflora Hymenocarpus circinnatus Lathyrus annuus Lathyrus aphaca Lathyrus cicera Lathyrus clymenum Lathyrus ochrus Lathyrus setifolius Lathyrus sphaericus Lotus conimbricensis Lotus corniculatus Lotus cytisoides Lotus edulis Lotus ornithopodioides Lotus pedunculatus Lotus peregrinus Lupinus albus ‡ Lupinus pilosus Medicago arabica Medicago arborea Medicago disciformis Medicago lupulina Medicago marina Medicago orbicularis Medicago polymorpha Medicago sativa ‡ Medicago truncatula Melilotus indicus Onobrychis aequidentata Onobrychis caput-galli Ononis reclinata Ononis spinosa subsp. diacantha Ornithopus compressus Robinia pseudoacacia ‡ Scorpiurus muricatus Securigera cretica Securigera globosa • Securigera securidaca Spartium junceum Tetragonolobus purpureus Trifolium angustifolium Trifolium arvense Trifolium campestre Trifolium fragiferum

Common name

Cretan Dwarf Broom Annual Scorpion Vetch Shrubby Sainfoin Spiny Broom A Horseshoe Vetch **Disc Trefoil** Annual Vetchling Yellow Vetchling Flat-podded Vetchling Crimson Pea Winged Vetchling **Red Vetchling** Round Pea A Bird's-foot Trefoil Bird's-foot Trefoil Grey Bird's-foot Trefoil Edible Lotus Clustered Bird's-foot Trefoil Greater Bird's-foot Trefoil A Bird's-foot Trefoil White Lupin A Hairy Lupin Spotted Medick Tree Medick **Disc Medick** Black Medick Sea Medick **Disc Medick Toothed Medick** Lucerne A Medick Small Melilot A Sainfoin Cock's-comb Sainfoin Small Restharrow Spiny Restharrow Compressed Bird's-foot False Acacia Scorpion Vetch Cretan Crown Vetch A Crown Vetch Hatchet Vetch Spanish Broom Asparagus Pea Narrow-leaved Clover Hare's-foot Clover Hop Trefoil Strawberry Clover White Clover **Reversed Clover** Starry Clover Woolly Trefoil

Notes

Common Cliffs and hillsides Common Rocky places Widespread Widespread Widespread Olive groves and stony hillsides Frequent Armeni Frequent Frequent Fallow fields Damp places Sands and rocks near the sea Widespread Widespread Damp places Occasional near the sea Occasional Locally common. Sometimes cultivated Occasional Cultivated and naturalised Stony ground near the sea Common Sand dunes Rocky or sandy places Widespread Occasional Rocky and sandy places Widespread Rocky places Rocky places near the sea Widespread Rocky places Rocky places Cultivated and naturalised Rocky and sandy places Weedy places Cliffs. Imbros Gorge Widespread Roadsides and maquis Widespread Widespread Weedy places Rocky and sandy places Bare ground Widespread Coastal sands Common Fields and rocky places

Trifolium repens

Trifolium stellatum

Trifolium resupinatum

Trifolium tomentosum

Trifolium uniflorum Trigonella graeca Vicia bithynica Vicia cretica Vicia hybrida Vicia lathyroides Vicia lathyroides Vicia lutea Vicia pubescens Vicia sativa subsp. sativa ‡ Vicia tenuifolia Vicia villosa Wisteria sinensis ‡

### Fagaceae

Castanea sativa ‡ Quercus coccifera subsp. calliprinos Quercus ilex Quercus ithaburensis subsp. macrolepis Quercus pubescens

Frankeniaceae Frankenia hirsuta

Fumariaceae Fumaria capreolata Fumaria officinalis

Gentianaceae Centaurium erythraea

#### Geraniaceae

Erodium cicutarium Erodium gruinum Erodium malacoides Erodium moschatum Geranium columbinum Geranium dissectum Geranium lucidum Geranium molle Geranium purpureum Geranium robertianum Geranium rotundifolium

### Hypericaceae

Hypericum empetrifolium subsp. empetrifolium Hypericum perfoliatum Hypericum perforatum Hypericum triquetrifolium

Juglandaceae

Juglans regia ‡

#### Common name

One-flowered Clover A Trigonella Bithynian Vetch Cretan Vetch Hairy Yellow Vetchling Spring Vetch Yellow Vetch A Vetch Common Vetch Fine-leaved Vetch A Fodder Vetch Wisteria

#### **Beech Family**

Sweet Chestnut Kermes Oak Holm Oak Valonia Oak Downy Oak

Sea-heath Family Hairy Sea-heath

Fumitory Family White Ramping Fumitory Common Fumitory

Gentian Family Common Centaury

Crane's-bill Family Common Stork's-bill Long-beaked Stork's-bill Mallow-leaved Stork's-bill Musk Stork's-bill Long-stalked Crane's-bill Cut-leaved Crane's-bill Shining Crane's-bill Dove's-foot Crane's-bill Little Robin Herb Robert Round-leaved Crane's-bill

**St John's-wort Family** Crowberry-leaved St John'swort Perfoliate St John's-wort Perforate St John's-wort Wavy-leaved st John's-wort

Walnut Family Walnut Notes

Widespread Disturbed ground Widespread Rocky places Common Phrygana Common Occasional Escape from cultivation Common Common Cultivated

Cultivated and occasionally naturalised Common Frequent Common around Armeni Common around Armeni

Maritime rocks and sand

Frequent Weedy places and fields

Rocky places

Disturbed areas and coastal sands Phrygana and riverbeds Olive groves and rocky places Olive groves and rocky places Rocky places Damp ground Shady places Olive groves and rocky places Olive groves and rocky places Shady places Olive groves and rocky places

Maquis Rocky places Rocky places Common

Cultivated

### Lamiaceae

Ballota acetabulosa Ballota nigra Ballota pseudodictamnus Clinopodium alpinum subsp. alpinum Clinopodium creticum • Clinopodium nepeta Clinopodium vulgare Lamium amplexicaule Lavandula stoechas Marrubium vulgare Melittis melissophyllum subsp. albida Mentha aquatica Mentha longifolia Mentha spicata Micromeria juliana Micromeria nervosa Nepeta melissifolia Origanum dictamnus • Origanum microphyllum • Origanum onites Origanum vulgare subsp. hirtum Phlomis cretica Phlomis fruticosa Prasium majus Prunella lacinata Prunella vulgaris Salvia fruticosa Salvia verbenaca Salvia viridis Satureja thymbra Scutellaria sieberi • Sideritis curvidens Sideritis syriaca subsp. syriaca • Stachys creticasubsp. cretica Stachys ocymastrum Stachys spinosa • Stachys spinulosa Teucrium alpestre • Teucrium capitatum Teucrium cuneifolium • Teucrium divaricatum Teucrium microphyllum Thymbra capitata Vitex agnus-castus

#### Linaceae

Linum arboreum Linum bienne Linum pubescens Linum strictum Linum trigynum

#### Common name

## **Dead-nettle Family**

Garden Horehound Black Horehound False Dittany Alpine Basil Thyme Cretan Calamint Lesser Calamint Wild Basil Henbit Dead-nettle French Lavender White Horehound Bastard Balm Water Mint Horse Mint Spear Mint Micromeria

A Cat-mint Cretan Dittany

White Marjoram Marjoram Cretan Jerusalem Sage Jerusalem Sage Prasium Cut-leaved Self-heal Self-heal Greek Sage Wild Clary Red-topped Sage Satureia A Skullcap

Mountain Tea Mediterranean Woundwort A Woundwort Spiny Wounwort A Woundwort A Germander Felty Germander

Small-leaved Germander Mediterranean Thyme Chaste Tree

### **Flax Family**

Shrubby Flax Biennial Flax Hairy Flax Upright Yellow Flax Southern Flax

#### Notes

**Riverbeds near sea-level** Waste places Rocky phrygana Rocky places in mountains Imbros Gorge Occasional Maguis and phrygana Common Local in maguis Waste places Gorge bed. Imbros Wet places Wet places Damp places Rocky places Rocky places Rare. Agia Triada Cliffs Omalos plateau Occasional Frequent in maquis Locally common Common Common Occasional. Fallow fields Occasional. Damp places Common Common Occasional. Akrotiri peninsula Maquis and phrygana Cliffs and rocky banks Rocky places Mountains Common Waste places Local Local Cliffs and rocks Rocky places Rare. Imbros Gorge Rocky places Rocky places Common Gorge-beds and damp places

Cliffs in gorges Frequent Rocky places Rocky places near the sea Rocky places near the sea

## Malvaceae

Alcea biennis Althaea hirsuta Hibiscus rosa-sinensis ‡ Lavatera bryoniifolia Malva arborea Malva cretica Malva parviflora Malva sylvestris

Meliaceae Melia azedarach ‡

## Moraceae

Ficus carica Ficus elastica ‡ Morus alba ‡

Myoporaceae Myoporum laetum ‡

Myrtaceae Callistemon viminalis ‡ Eucalyptus camaldulensis ‡ Myrtus communis

Nyctaginaceae Bougainvillea glabra ‡

Oleaceae Olea europaea var. sylvestris Phillyrea latifolia

Onagraceae Epilobium hirsutum

Orobanchaceae Bellardia trixago Orobanche alba Orobanche crenata Orobanche ramosa Parentucellia latifolia Parentucellia viscosa

**Oxalidaceae** Oxalis pes-caprae ‡

Papaveraceae Glaucium flavum Hypecoum procumbens Papaver apulum Papaver argemone subsp. nigrotinctum Papaver dubium subsp. dubium Common name

**Mallow Family** 

Wild Hollyhock Hairy Mallow Hibiscus Bryony-leaved Mallow Tree Mallow Cretan Mallow Least Mallow Common Mallow

Mahogany Family Persian Lilac

**Mulberry Family** Fig Rubber Plant White Mulberry

Myoporum Family Ngaio

Myrtle Family Bottlebrush River Red Gum Common Myrtle

Bougainvillea Family Bougainvillea

Olive Family Wild Olive Mock Privet

Willowherb Family Greater Willowherb

Broomrape Family Bellardia Thyme Broomrape Bean Broomrape Branched Broomrape Southern Red Bartsia Yellow Bartsia

Wood-sorrel Family Bermuda Buttercup

Poppy Family Yellow Horned Poppy Sickle-fruited Hypecoum

Prickly Poppy Long-headed Poppy Notes

Occasional Frequent Cultivated Common Coast. Hania Waste areas Rocky places near the sea Common

Cultivated

Frequent Cultivated Cultivated

Cultivated

Cultivated Cultivated Occasional along watercourses

Cultivated

Occasional in phrygana Occasional in maquis

Wet ditches

Frequent in meadows Occasional Parasitic on *Vicia faba* Common on *Oxalis pes-caprae* Common Occasional. Damp places

Common weed

Coast Akrotiri peninsula Occasional Cropped land Uncommon

Papaver hybridum Papaver purpureomarginatum Papaver rhoeas

Phytolaccaceae Phytolacca americana ‡

Pittosporaceae Pittosporum tobira ‡

#### Plantaginaceae

Cymbalaria muralis ‡ Kickxia elatine subsp. sieberi Linaria pelisseriana Misopates orontium Plantago afra Plantago bellardii Plantago bellardii Plantago cretica Plantago lagopus Plantago lanceolata Plantago major Plantago major Plantago weldenii Veronica anagallis-aquatica Veronica arvensis Veronica cymbalaria Veronica persica ‡

Platanaceae Platanus orientalis

Plumbaginaceae Limonium graecum Limonium sinuatum

Polygalaceae Polygala monspeliaca Polygala myrtifolia ‡ Polygala venulosa

# Polygonaceae

Persicaria salicifolia Polygonum aviculare Polygonum equisetiforme Polygonum maritimum Rumex bucephalophorus Rumex conglomeratus Rumex tuberosus subsp. creticus

Portulacaceae Portulaca oleracea

#### Common name

Rough Poppy

Common Poppy

Pokeweed Family American Pokeweed

Pittosporum Family A Pittosporum

**Plantain and Speedwell** Family Ivy-leaved Toadflax Sharp-leaved Fluellen Jersey Toadflax Weasel's-snout Glandular Plantain Hairy Plantain A Plantain Hare's-foot Plantain **Ribwort Plantain Greater Plantain** A Buck's-horn Plantain Water Speedwell Wall Speedwell Cymbalaria-leaved Speedwell Common Field Speedwell

Plane Family Oriental Plane

Thrift Family A Sea-lavender Winged Sea-lavender

Milk-wort Family Mediterranean Milkwort Myrtle-leaved Milkwort Eastern Milk-wort

Dock Family Willow-leaved Knotgrass Knotgrass Horsetail Knotgrass Sea Knotgrass Bull's-head Dock Clustered Dock Tuberous Dock

Purslane Family Purslane Notes

Uncommon Occasional Common

Naturalised

Cultivated

Walls Agia Lake Frequent in phrygana Occasional Common Common Rocky places near coast Frequent Olive groves. Damp places Damp places Coastal Streams Widespread Widespread Naturalised near the sea

**River valleys** 

Cliffs. Plakias Coastal sands

Occasional Cultivated Frequent

Agia Lake Disturbed ground Olive groves. Roadsides Coastal sands Common Wet places Rocky places

Disturbed ground

## Primulaceae

Anagallis arvensis subsp. arvensis Anagallis arvensis subsp. foemina Asterolinon linum-stellatum Cyclemen creticum • Cyclamen graecum subsp. candicum • Samolus valerandi

## Punicaceae

Punica granatum ‡

### Ranunculaceae

Adonis microcarpa subsp. cretica • Adonis microcarpa subsp. microcarpa Anemone coronaria Anemone hortensis subsp. heldreichii Clematis cirrhosa Delphinium staphisagria Ficaria verna subsp. chrysocephala Nigella damascena Ranunculus arvensis Ranunculus asiaticus Ranunculus bulbosus subsp. aleae Ranunculus bullatus Ranunculus chius Ranunculus cupreus • Ranunculus cytheraeus Ranunculus creticus • Ranunculus gracilis Ranunculus muricatus Ranunculus paludosus Ranunculus peltatus subsp. fucoides Ranunculus sprunerianus Ranunculus subhomophyllus Ranunculus trichophyllus

## Resedaceae

Reseda alba Reseda lutea Reseda luteola

Rhamnaceae Rhamnus lycioides subsp. oleoides

### Rosaceae

Crataegus monogyna Cydonia oblonga ‡ Eriobotrya japonica ‡ Poterium creticum • Poterium sanguisorba subsp. verrucosa Prunus dulcis ‡ Prunus persica ‡ Prunus prostrata

#### Common name

#### Primrose Family

Scarlet Pimpernel Blue Pimpernel Asterolinon Cretan Sowbread A Greek Sowbread Brookweed

Pomegranate Family Pomegranate

#### **Buttercup Family**

Yellow Pheasant's-eye Yellow Pheasant's-eye Crown Anomone Heldreich's Anemone Virgin's Bower Lice Bane A Lesser Celandine Love-in-a-Mist Corn Buttercup Turban Buttercup Bulbous Buttercup

Cretan Buttercup

Rough-fruited Buttercup Jersey Buttercup Pond Water-crowfoot

Thread-leaved Water-crowfoot

## **Mignonette Family**

White Mignonette Mignonette Weld

Buckthorn Family A Buckthorn

## **Rose Family**

Hawthorn Quince Japanese Loquat Cretan Salad Burnet Salad Burnet Almond Peach Rock Cherry

#### Notes

Common Common Frequent Locally common Widespread Wet rocks. Georgioupolis

Cultivated

Akrotiri peninsula Red-flowered Gious Kambos. Omalos Widespread Occasional. Maguis and roadsides Imbros Gorge Common Plakias headland Fields Locally common Moist shady places Locally common. Autumn-flowering Widespread Rocky places Locally common. Autumn-flowering Shady cliffs Frequent Moist places Locally common Seasonal pond. Omalos plateau Open areas. Mountains Above Omalos plateau Aquatic

Waste areas Waste areas Waste areas

### Frequent in phrygana

Common Cultivated Cultivated Cliffs. Imbros Gorge Frequent Cultivated Cultivated Mountain rocks. Omalos

Pyracantha coccinea ‡ Pyrus communis‡ Pyrus spinosa Rosa canina Rosa sempervirens Rubus sanctus Sarcopoterium spinosum

### Rubiaceae

Asperula pubescens • Asperula rigida • Galium aparine Galium fruticosum • Galium incrassatum • Rubia peregrina Sherardia arvensis Valentia hispida Valentia muralis

#### Rutaceae

Citrus limon ‡ Citrus sinensis ‡ Ruta chalpensis subsp. chalepensis

# Salicaceae

Populus alba ‡ Salix alba ‡

Santalaceae Osyris alba

Sapindaceae Acer sempervirens

Saxifragaceae Saxifraga rotundifolia subsp. chrysospleniifolia

### Scrophulariaceae

Scrophularia auriculata Scrophularia lucida Scrophularia peregrina Verbascum arcturus • Verbascum macrurum Verbascum sinuatum Verbascum spinosum •

Simaroubaceae Ailanthus altissima ‡

Solanaceae Hyoscyamus albus Lycium barbarum ‡

#### Common name

Firethorn Domestic Pear Almond-leaved Pear Dog-rose Evergreen Rose A Bramble Thorny Burnet

#### **Bedstraw Family**

Cleavers A shrubby Bedstraw A Bedstraw Wild Madder Field Madder Valantia Wall Valantia

## Rue Family Lemon Orange

Orange Fringed Rue

## Willow Family

White Poplar White Willow

Bastard-toadflax Family Osyris

Maple Family Cretan Maple

Saxifrage Family Chrysosplenium-leaved Saxifrage

## Figwort Family Water Figwort Shining Figwort Nettle-leaved Figwort Shrubby Mullein A Mullein Wavy-leaved Mullien Spiny Mullein

Tree-of-heaven Family Tree-of-heaven

Nightshade Family White Henbane Duke of Argyll's Teaplant

#### Notes

Cultivated Cultivated Common Frequent Common Common

Cliffs. Kotsifou Gorge Mountain rocks Waste places Cliffs Phrygana. Akrotiri peninsula Frequent in scrub Common Dry rocky places Dry rocky places

Cultivated Cultivated Occasional

Common By rivers

Locally common

Common. Mountains

Locally common

Wet ditches Occasional Common. Imbros Gorge Common on cliffs Common Common Common

Naturalised

Weedy places and walls. Hania Naturalised near the coast

Mandragora autumnalis Nicotiana glauca ‡ Solanum nigrum Solanum villosum

Styracaceae Styrax officinalis

Tamaricaceae Tamarix parviflora Tamarix smyrnensis ‡

**Thymelaeaceae** Daphne gnidioides Daphne sericea Thymelaea hirsuta

Ulmaceae Ulmus minor ‡ Zelkova abelicea •

Urticaceae Parietaria cretica Parietaria judaica Urtica membranacea Urtica pilulifera Urtica urens

Verbenaceae Lantana camara ‡ Lippia nodiflora Verbena officinalis

Vitaceae Vitis vinifera subsp. sylvestris Vitis vinifera subsp. vinifera ‡

Zygophyllaceae Tribulus terrestris

#### Common name

Mandrake Shrub Tobacco Black Nightshade Hairy Nightshade

Storax Family Mediterranean Storax

Tamarisk Family Small-flowered Tamarisk A Tamarisk

**Mezereon Family** A Daphne A Daphne Hairy Thymelaea

**Elm Family** Small-leaved Elm Cretan Zelkova

Nettle Family Cretan Pellitory Pellitory-of-the-Wall Membranous Nettle Roman Nettle Small Nettle

Vervain Family Lantana

Vervain

Vine Family Wild Vine Grape Vine

Caltrop Family Maltese Cross

## MONOCOTYLEDONS

Amaryllidaceae **Daffodil Family** Allium ampeloprasum Wild Leek Allium callimischon subsp. haemostictum Allium circinnatum subsp. circinnatum • Allium neapolitanum Naples Garlic Allium nigrum Black Garlic Allium roseum Rosy Garlic Allium subhirsutum Hairy Garlic Allium rubrovittatum • Allium trifoliatum

Notes

Frequent Naturalised along roadsides Weedy places Damp places

Frequent

Coastal Planted. Plakias beach

Plakias headland Common in mountains Rocky places near the sea

Occasional. Planted Omalos plateau

Rocks and walls Rocks and walls Weedy places Weedy places Weedy places

Cultivated Damp grassland. Souda Frequent. Waste areas

Occasional Cultivated

Waste areas

Occasional Cliffs. Imbros Gorge. Autumnflowering Akrotiri peninsula Occasional Meadows Occasional Occasional Stony ground. Akrotiri Cultivated fields

Narcissus tazetta Pancratium maritimum Sternbergia sicula

## Araceae

Arisarum vulgare Arum concinnatum Arum creticum Arum idaeum • Dracunculus vulgaris Zantedeschia aethiopica‡

### Arecaceae

Phoenix canariensis‡ Phoenix dactylifera‡ Phoenix theophrasti Washingtonia filifera‡

### Asparagaceae

Agave americana ‡ Asparagus aphyllus subsp. orientalis Drimia maritima Leopoldia comosa Muscari neglectum Muscari spreitzenhoferi • Ornithogalum arabicum ‡ Ornithogalum exscapum var. collinum Ornithogalum divergens Ornithogalum creticum • Ornithogalum narbonense Ruscus aculeatus

## Cyperaceae

Bolboschoenus maritimus Carex otrubae Cladium mariscus Cyperus capitatus Schoenoplectus lacustris Scirpoides holoschoenus

### Dioscoreaceae

Tamus communis

### Iridaceae

Crocus pumilus • Crocus sieberi • Gladiolus italicus Iris albicans‡ Iris germanica‡ Iris pseudacorus Iris tuberosa Iris unguicularis subsp. cretensis • Moraea mediterranea

#### Common name

Polyanthus Daffodil Sea Daffodil Slender Sternbergia

## Arum Family

Friar's Cowl An Arum Cretan Arum Cretan Mountain Arum Dragon Arum Arum Lily

## Palm Family

Canary Palm Date Palm Cretan Palm Californian Fan-palm

## Asparagus Family

Centuryplant Leafless Asparagus Sea Squill Tassel Hyacinth A Grape Hyacinth A Tassel Hyacinth A Star-of-Bethlehem A Star-of-Bethlehem A Star-of-Bethlehem Southern Star-of-Bethlehem Butcher's-broom

### Sedge Family

Sea Club-rush False Fox Sedge Great Fen-sedge Sand Galingale Common Club-rush Round-headed Club-rush

# Yam Family

Black Bryony

### Iris Family

A Crocus A Crocus Field Gladiolus White Iris German Iris Yellow Flag Snake's-head Iris Cretan Iris One-leaved Barbary Nut

#### Notes

Gious Kambos Sand dunes Rock crevices. Autumn-flowering

Common. Damp places Common. Olive groves Kotsifou Gorge Omalos plateau Common Cultivated

Cultivated Cultivated South coast Cultivated

Cultivated and naturalised Common Common Common Mountain rocks. Omalos Frequent Cultivated. Hania Rocky places Frequent Occasional. Limestone crevices Frequent Shady areas

Coastal marshes Ditches and springs Agia Lake Coastal sands Agia Lake Damp places

Woodland and scrub

Imbros and Omalos. Autumn-flowering Omalos Frequent Planted Planted Agia Lake Gious Kambos and Omalos Locally common Akrotiri peninsula

Moraea sisyrinchium Romulea bulbocodium Romulea linaresii subsp. graeca

#### Juncaceae

Juncus acutus Juncus articulatus Juncus bufonius Juncus effusus Juncus heldreichianus

## Liliaceae

Gagea graeca Gagea peduncularis Tulipa bakeri • Tulipa doerfleri • Tulipa saxatilis

#### Orchidaceae

Anacamptis boryi Anacamptis collina Anacamptis laxiflora Anacamptis papilionacea subsp. heroica Anacamptis pyramidalis Himantoglossum robertianum Neotinea lactea Neotinea tridentata Ophrys bombyliflora Ophrys candica Ophrys creberrima Ophrys cretica Ophrys heldreichii Ophrys herae **Ophrys** leochroma Ophrys phryganae Ophrys sicula Orchis anthropophora Orchis italica Orchis pauciflora Orchis quadripunctata Serapias bergonii Serapias cordigera subsp. cretica •

Serapias lingua

### Poaceae

Aegilops biuncialis Aegilops geniculata Arundo donax ‡ Ammophila arenaria Andropogon distachyos Anthoxanthum odoratum Avena barbata

#### Common name

Barbary Nut A Sand-crocus A Sand-crocus

## **Rush Family**

Sharp Rush Jointed Rush Toad Rush Soft Rush Heldreich's Rush

## Lily Family

Greek Lloydia A Yellow Star-of-Bethlehem Baker's Tulip Doerfler's Tulip Rock Tulip

## **Orchid Family**

Bory's Orchid Fan-lipped Orchid Jersey Orchid Heroic Pink Butterfly-orchid Pyramidal Orchid Giant Orchid Milky Orchid **Toothed Orchid Bumblebee Orchid** Candia Orchid Creberrima Orchid Common Cretan Bee Orchid Heldreich's Orchid Hera's Orchid Lion Mane Orchid Phrygana Orchid Small Yellow Bee Orchid Man Orchid Naked Man Orchid Sparse-flowered Orchid Four-spotted Orchid Bergoni's Tongue-orchid Cretan Heart-flowered Tongue-orchid Tongue-orchid

### **Grass Family**

A Goat-grass Ovate Goat-grass Giant Reed Marram Two-spiked Beard-grass Sweet Vernal-grass Slender Oat

#### Notes

Common Occasional Occasional

Maritime sands Wet places Wet places Wet places Coastal marshes. Maritime sands

Common Omalos plateau Omalos plateau Gious Kambos Gious Kambos

Spili hill Locally common Damp meadows Occasional Locally common Locally common Spili hill Spili hill Spili hill and Armeni Plakias headland Spili hill Occasional Common Local Locally frequent Frequent Common Spili hill and Armeni Common Locally common Common Common Agia Triada Common

# Frequent

Occasional Naturalised and common Sand dunes Rocky places. Roadsides Damp places. Fields Disturbed ground

Avena sterilis Brachypodium retusum Briza maxima Briza minor Catapodium marinum Catapodium rigidum Cynodon dactylon Cynosurus echinatus Digitaria sanguinalis Hordeum leporinum Hyparrhenia hirta Lagurus ovatus Lamarckia aurea Lolium perenne Lolium temulentum Melica ciliata Parapholis incurva Phragmites australis Piptatherum miliaceum Poa annua Polypogon monspeliensis Rostraria cristata Sesleria doerfleri • Stipa capensis Vulpia ciliata

Posidoniacae Posidonia oceanica

Smilacaceae Smilax aspera

**Typhaceae** Typha domingensis

Xanthorrhoeaceae Asphodeline liburnica Asphodeline lutea Asphodelus aestivus Asphodelus fistulosus

Zosteraceae Zostera marina Zostera noltii

#### Common name

Winter Wild-oat Fallow land Mediterranean False-brome Widespread Large Quaking-grass Disturbed ground Lesser Quaking-grass Moist ground Sea Fern-grass Maritime Fern-grass Bare stony ground Bermuda Grass Disturbed ground Rough Dog's-tail Rocky places. Fields Roadsides Hairy Finger-grass Wall Barley Roadsides. Waste places **Thatching Grass** Widespread Hare's-tail Grass Common Golden Dog's-tail Frequent Perennial Rye-grass Widespread Darnel Fields and waste places Hairy Melick Imbros Gorge Curved Hard-grass Maritime sands Common Reed Marshes and riverbanks **Rice-grass** Olive groves. Waste areas Annual Meadow-grass Waste places Annual Beard-grass Wet places Widespread **Crested Hair-grass** Doerfler's Moor-grass Kotsifou Gorge Mediterranean Needle-grass Rocky places and fields **Bearded Fescue** Bare stony ground and fields

Notes

Neptune-grass Family Neptune-grass

Smilax Family Common Smilax

Reedmace Family Southern Reedmace

Asphodel Family

Yellow Asphodel Common Asphodel Hollow-stemmed Asphodel

Eelgrass Family Eelgrass Dwarf Eelgrass

Marine Marine

Marine

Common

Agia Lake

Occasional

Common

Common

Ditches and roadsides

Birds ( $\checkmark$ =recorded but not counted; H = heard only)

	Common name Mute Swan Furasian Teal		March/April									
	Common name	Latin name	28	29	30	31	1	2	3	4		
1	Mute Swan	Cygnus olor						2				
2	Eurasian Teal	Anas crecca					1	1				
3	Garganey	Spatula querquedula					2	3				
4	Ferruginous Duck	Aythya nyroca					1					

					M	arch	April			
	Common name	Latin name	28	29	30	31	1	2	3	4
5	Tufted Duck	Aythya fuligula						25		
6	Chukar	Alectoris chukar		Н						
7	Little Grebe	Tachybaptus ruficollis					6	10		
8	Scopoli's Shearwater	Calonectris diomedea				6				
9	Great Cormorant	Phalacrocorax carbo						2	1	
10	European Shag	Phalacrocorax aristotelis			1	1				
11	Black-crowned Night Heron	Nycticorax nycticorax						1		
12	Little Egret	Egretta garzetta	6	3	2		6	6	1	
13	Grey Heron	Ardea cinerea	1	3				1		
14	Purple Heron	Ardea purpurea	1							
15	Bearded Vulture (Lammergeier)	Gypaetus barbatus	1							
16	Griffon Vulture	Gyps fulvus	12	12	4	25	6	35	2	
17	Golden Eagle	Aquila chrysaetos				1	1	1		
18	Bonelli's Eagle	Aquila fasciata			1	2				
19	Western Marsh Harrier	Circus aeruginosus		1	1	3	2	2	3	
20	Montagu's Harrier	Circus pygargus			1					
21	Pallid Harrier	Circus macrourus			1	1				
22	Common Buzzard	Buteo buteo	✓	✓	~	✓	✓	~	✓	
23	Eurasian Sparrowhawk	Accipiter nisus						1		
24	Common Kestrel	Falco tinnunculus	6	3	1	✓	✓		2	-
25	Red-footed Falcon	Falco vespertinus		1						
 26	Water Rail	Rallus aquaticus		•				1		-
 27	Little Crake	Porzana parva						9		-
28	Common Moorhen	Gallinula chloropus		3			~	√ √		-
29	Eurasian Coot	Fulica atra		U			√ 	~		-
30	Black-winged Stilt	Himantopus himantopus		3						-
31	Eurasian Stone-curlew	Burhinus oedicnemus		2						-
32	Little Ringed Plover	Charadrius dubius		1		2				-
33	Wood Sandpiper	Tringa glareola		4		2				-
33 34	Green Sandpiper	Tringa giareola Tringa ochropus		4				4		-
				I		4	2	4		-
35	Common Sandpiper	Actitis hypoleucos				1	2	2		-
36	Common Redshank	Tringa totanus				1	1			-
37	Common Greenshank	Tringa nebularia		0		1				_
38	Eurasian Curlew	Numenius arquata		9				•		_
39	Ruff	Calidris pugnax				1		3		_
40	Yellow-legged Gull	Larus michahellis		✓	✓	✓	✓	✓	✓	_
41	Sandwich Tern	Sterna sandvicensis		1						
42	Rock Dove / Feral Pigeon	Columba livia		✓	✓	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	✓	✓	
43	Common Wood Pigeon	Columba palumbus		✓	✓	✓	✓	✓	✓	
44	Eurasian Collared Dove	Streptopelia decaocto		$\checkmark$	✓	✓	✓	✓	✓	
45	Common Cuckoo	Cuculus canorus		1						
46	Common Swift	Apus apus	✓	✓	2	✓	✓	✓	✓	
47	Alpine Swift	Apus melba		1	20		1	10		
48	Eurasian Hoopoe	Upupa epops			1	2			2	
49	Common Kingfisher	Alcedo atthis					1	1	1	
50	Eurasian Wryneck	Jynx torquilla							1	
51	Crested Lark	Galerida cristata	2	2	6	✓	✓			
52	Woodlark	Lullula arborea			✓			10	10	
53	Common Sand Martin	Riparia riparia	✓							
54	Eurasian Crag Martin	Ptyonoprogne rupestris		2	6	✓	1	10		
55	Barn Swallow	Hirundo rustica	✓	$\checkmark$	$\checkmark$	✓	✓	✓		

							/April			
	Common name	Latin name	28	29	30	31	1	2	3	4
56	Red-rumped Swallow	Hirundo daurica			3					
57	Common House Martin	Delichon urbicum	✓	✓	✓	✓	✓	✓		
58	Meadow Pipit	Anthus pratensis			20			10		
59	Tree Pipit	Anthus trivialis		1					Н	
60	White Wagtail	Motacilla alba	✓	✓	10	4	2		1	
61	Blue-headed Yellow Wagtail	Motacilla flava flava		1					1	
	Black-headed Yellow Wagtail	Motacilla flava feldegg		200				3	3	
62	European Robin	Erithacus rubecula				1				
63	Common Nightingale	Luscinia megarhynchos		Н	1	Н			Н	
64	Northern Wheatear	Oenanthe oenanthe			15	1		10	2	
65	Black-eared Wheatear	Oenanthe hispanica			3	1				
66	Common Stonechat	Saxicola torquata	2	2	10	$\checkmark$	1	2	4	
67	Common Blackbird	Turdus merula	✓	✓	✓	✓	✓	✓	✓	۰,
68	Blue Rock Thrush	Monticola solitarius			1	Н	1			
69	Blackcap	Sylvia atricapilla	Н	Н	Н	1		н	Н	
70	Sardinian Warbler	Sylvia melanocephala	✓	✓	✓	✓	✓	✓	✓	•
71	Ruppell's Warbler	Sylvia rueppelli			1	2	1			
72	Subalpine Warbler	Sylvia cantillans			5	2	1			-
73	Sedge Warbler	Acrocephalus schoenobaenus						3		-
74	Cetti's Warbler	Cettia cetti	Н	н	Н		Н	н		-
75	Willow Warbler	Phylloscopus trochilus			1					-
76	Wood Warbler	Phylloscopus sibilatrix			1					-
77	Common Chiffchaff	Phylloscopus collybita				1		1	1	-
78	Pied Flycatcher	Ficedula hypoleuca			1				1	-
79	Collared Flycatcher	Ficedula albicollis				1				-
80	Semi-collared Flycatcher	Ficedula semitorquata				1				-
81	Great Tit	Parus major	✓	✓	✓	. ✓	✓	✓	✓	,
82	European Blue Tit	Cyanistes caeruleus	✓	✓	✓	✓	✓	✓	✓	١,
83	Woodchat Shrike	Lanius senator			~	2		1	1	-
84	Eurasian Jay	Garrulus glandarius				1			·	+
85	Western Jackdaw	Corvus monedula	✓	✓	~	√ 	✓	✓		+
86	Red -billed Chough	Pyrrhocorax pyrrhocorax	· ✓	✓	20		2			-
87	Alpine Chough	Pyrrhocorax graculus			20		~	2		-
88	Hooded Crow	Corvus cornix	✓	✓	~	✓	✓	∠ √	√	١,
89	Common Raven	Corvus corax	•	2	2	· ✓	· •	· •	2	-
90	Italian Sparrow	Passer italiae		∠ √	∠ √	· •	· •	· •	∠ √	-
	-			•	•	•	•		•	-
91 92	Eurasian Tree Sparrow Common Chaffinch	Passer montanus	✓	✓	✓	✓	✓	1 ✓	✓	,
	Common Challinch Common Linnet	Fringilla coelebs	•	•	•	▼ ✓	•		•	+
93 04		L:inaria cannabina	✓	✓	✓	✓ ✓	✓	4 ✓	✓	,
94 05	European Goldfinch	Carduelis cardulis	v			v				+
95 06	European Greenfinch	Chloris chloris		2	2		H	4	Н	-
96	Eurasian Siskin	Spinus spinus					10		~	-
97	European Serin	Serinus serinus		2			Н		6	_
98	Ortolan Bunting	Emberiza hortulana						-	Η	-
99	Cirl Bunting	Emberiza cirlus						2		-
100	Corn Bunting	Emberiza calandra			10	10			1	

Mammals (D=dead; E=Evidence of)

1	Beech Marten	Martes foina bunites	D	D				
2	Cretan Badger	Meles meles arkalus			D	Е		

				М	arch/	'April			
Common name	Latin name	28	29	30	31	1	2	3	4

# Reptiles

1	Balkan Green Lizard	Lacerta trilineata				✓	✓	
2	Cretan Wall Lizard	Podarcis cretensis			✓	$\checkmark$	✓	
3	Balkan Terrapin	Mauremys rivulata			✓	$\checkmark$		

# Amphibians

1	Common Tree Frog	Hyla arborea			Н	
2	American Bullfrog ‡	Lithobates catesbeianus			$\checkmark$	

# **Butterflies**

1	Cretan Festoon	Zerynthia cretica				✓	
2	Swallowtail	Papilio machaon			✓		
3	Large White	Pieris brassicae				✓	✓
4	Small White	Pieris rapae	✓			✓	
5	Clouded Yellow	Colias crocea	✓				✓
6	Small Copper	Lycaena phlaeas					✓
7	Holly Blue	Celastrina argiolus					$\checkmark$
8	Peacock	Inachis io					✓
9	Red Admiral	Vanessa atalanta				✓	✓
10	Painted Lady	Vanessa cardui					✓
11	Southern Speckled Wood	Pararge aegeria aegeria		✓			

# Moths

1	Humming-bird Hawk-moth	Macroglossum stellatarum			✓		
2	Pine Processionary Moth	Thaumetopoea pityocampa	Е				
3	Small Blood-vein	Scopula imitaria syriaca		✓			

# Dragonflies

1	Blue Emperor	Anax imperator			✓	✓	
2	Southern Emerald Damselfly	Lestes barbarus			✓		

# Other Insects

1	Great Green Bush-cricket	Tettigonia viridissima	✓					
2	Egyptian Grasshopper	Anacridium aegyptium			$\checkmark$	✓	✓	
3	Fire Bug	Pyrrhocoris apterus	✓		✓	✓	✓	
4	Violet Carpenter Bee	Xylocopa violacea		✓	✓	✓	✓	
5	Rhinoceros Beetle	Oryctes nasicornis			✓			

# Molluscs

1	Cretan Door Snail	Albinaria inflata					✓			
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# Crustaceans

2 Land Crab Potamon potamios ✓
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