

Naturetrek Tour Report

12 - 19 April 2016



Tulipa doerfleri

Orphrys sicula, Small yellow bee orchid

Report compiled by David Tattersfield Images courtesy of Janet Dickinson



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Tour participants: David Tattersfield & Barry Oxley (leaders) with 13 Naturetrek clients

Day 1

Tuesday 12th April

The flight from Gatwick arrived 15 minutes early and, once we had loaded our vehicles, we set off for Plakias, under a clear sky, with a temperature of around 21°C. Oleander Nerium oleander, Spanish Broom Spartium junceum and the invasive False Acacia Robinia pseudoacacia lined the coast road and, once clear of the sprawl of Heraklion, we stopped for a leg stretch and a brief introduction to the flora. Strawberry Tree Arbutus unedo was common, with scattered shrubs of the taller Eastern Strawberry Tree Arbutus andrachne, distinguished by its pale smooth bark. Cretan Cistus Cistus incanus subsp. creticus, the Mastic Tree Pistacia lentiscus, Crowberry-leaved St John's-wort Hypericum empetrifolium and the pungent Savory Satureja thymbra were also common and the ubiquitous weed Bermuda Buttercup (nothing to do with Bermuda or Buttercups!) was growing everywhere. Overhead, we saw our first Griffon Vultures. Near to Rethymnon, we turned south, where the roadsides were lined with the attractive purple thistle Galactites tomentosa and a profusion of both colour forms of the Crown Daisy Glebionis coronaria. Magnificent plants of Giant Fennel Ferula communis adorned the hillsides, along with the Jerusalem Sage Phlomis fruticosa and Hairy Thorny Broom Callicotome villosa.

We stopped for a welcome coffee break, with extensive views over a verdant landscape and the last traces of snow, streaking the summit slopes of Mount Ida. In the Kourtaliotiko Gorge, we counted around 20 Griffon Vultures, high over the crags. A Bonelli's Eagle put in a brief appearance and there were a number of Alpine Swifts and a pair of Blue Rock Thrush. A brief look at the walls of the gorge revealed some interesting plants, which included Shrubby Mullein *Verbascum arcturus*, the tassel hyacinth *Muscari spreitzenhoferi* and the attractive *Ricotia cretica*, all endemic to Crete. We arrived at the Sophia Hotel at 5.30pm and, after settling into our rooms, made the short walk to a nearby taverna for a delicious meal. After a brief talk on the plans for the following day, we retired to bed after a long day.

Day 2

Wednesday 13th April

After breakfasting, we left about 9am, making our first stop at the Turkish Bridge. Storax *Styrax officinalis* was covered in its lovely, white, pendant flowers and nearby were fine plants of yellow Honeywort *Cerinthe major*, some tall specimens of the Bean Broomrape *Orobanche crenata* and the smaller Branched Broomrape *Orobanche ramosa*, parasitizing Bermuda Buttercup *Oxalis pes-caprae*. We stopped at the war memorial, where there were large plants of Yellow Asphodel *Asphodeline lutea*, and then at the Moni Preveli Monastery. Some of us made a visit to Monastery and the museum, while the keen birders walked a little way back along the road. A male Ortolan Bunting was singing from a rock accompanied by the jangling of Corn Buntings, and the wheezing call of a Black-eared Wheatear.

Heading back inland, we spent 15 minutes or so in the Kourtaliotiko Gorge, seeing the Bonelli's Eagle, Griffon Vultures and Red-billed Choughs, overhead, and a Blue Rock Thrush on the cliffs. In the hills above Spili, we found some excellent specimens of Cretan Dutchman's Pipe *Aristolochia cretica*, including a rare white form, and then stopped on the plateau for lunch. We spent the afternoon exploring the rich diversity of orchids and other flowers on the surrounding hills. These ranged from the showy Naked Man Orchid *Orchis italica* and primrose-yellow *Orchis pauciflora* to the smaller *Anacamptis boryi* and the Four-spotted Orchid *Orchis quadripunctata*. There were some particularly fine specimens of the endemic Sitia orchid *Orchis sitiaca* and we spent some time

identifying the many Bee Orchids and photographing the lovely red *Tulipa doerfleri* in the surrounding fields. Finally, we managed to locate a few flowers of *Fritillaria messanensis*, before we had to call a halt to our explorations and return to Plakias.

Day 3

After a short pre-breakfast walk and shopping for our picnic, we set off east towards Phaestos. On our obligatory stop in the gorge, we found a Booted Eagle along with the Bonelli's, and a pair of Red-rumped Swallows. We had a morning coffee stop in delightful Spili, overlooking its famous fountains and then set off south. Roadside stops produced some interesting plants, including Giant Orchid *Himantoglossum robertianum*, Common Cretan Ophrys *Ophrys cretica*, Fan-lipped Orchid *Orchis collina* and Heroic Pink Butterfly Orchid *Anacamptis papilionacea* var. *heroica*. Swathes of blue Hairy Lupin *Lupinus micranthus* and the Pale Bugloss *Echium italicum* intermingled with showy white Turban Buttercups *Ranunculus asiaticus*. We passed the unattractive polytunnels that surround Timbaki and arrived at Phaestos, around lunchtime. After a short visit to this interesting archaeological site, we ate our lunch overlooking the fertile Mesara Plain, with Mount Ida in the background.

Moving on, there were large showy bushes of the endemic Shrubby Sainfoin *Ebenus cretica* at Agia Triada and Pyramidal Orchid *Anacamptis pyramidalis* and the endemic Cretan Heart-flowered Tongue Orchid *Serapias cordigera* subsp. *cretica* in a stony meadow. We had a little difficulty locating a small coastal lagoon at Kokkinos, but it proved to be well worth the effort. A good range of waders included Black-winged Stilt, Wood and Common Sandpiper, Spotted Redshank, Common Greenshank, Ruff and a small flock of Little Stint. We made a couple more stops for orchids, on the way back and were in Plakias for 6.45pm.

Day 4

Driving west through magnificent scenery and sleepy villages, we saw the occasional Corn Bunting on the wires, a few Crested Larks in the fields and a solitary Marsh Harrier. We suspected that, because of the good weather, any migrants were simply carrying on flying north. At Frangocastello, we paused to see the castle and then continued to the top of the Imbros Gorge, where we enjoyed traditional pancakes with cheese and honey to sustain us on our 8-kilometre walk. As we descended the gorge, every turn opened up a new vista and revealed new plants growing on the cliffs and screes. The yellow Tree Flax *Linum arboreum*, the abundant white *Saxifraga chrysosplenifolia*, delicate *Cyclamen creticum* and the leathery-leaved, shrubby thistle *Staehelina petiolata* were just a few of the highlights. In the lower part of the gorge, we found the rare endemic shrubby spurge *Euphorbia sultanhassei*. There were lots of Crag Martins zooming around the cliffs and, unusually, we heard the distinctive call of Scops Owl. After around four hours, we eventually reached the Taverna Komitades, and enjoyed light snacks and drinks while the second minibus was being retrieved from the top of the gorge. We were late back in Plakias, where we arrived around 7.30pm.

Day 5

Saturday 16th April

The vehicles were packed and loaded by the end of breakfast, ready for our move to Hania but, before leaving Plakias, we had a look at the sand dunes, at the end of the bay, and walked along the cliff, as far as the tunnels that had been built to defend the bay in the Second World War. We noted the endemic tassel hyacinth *Muscari* spreitzenhoferi, the rare *Dahne gnidioides* and found the rock-hugging *Campanula tubulosa* and *Tulipa cretica* on the

Thursday 14th April

Friday 15th April

cliffs. Lots of Common Swifts and around 30 Alpine Swifts were flying, just off the coast. We made a short walk along the road in the nearby Kotsifou Gorge, finding some rather faded Cretan Arum *Arum creticum*, the pink endemic brassica *Ricotia cretica* and the aptly-named *Silene gigantea*. Of particular geological interest were the numerous large fossil Nummulites, in the limestone screes, dating back over 35 million years.

We continued north and stopped at the late-Minoan cemetery near Armeni, where many tombs had been excavated out of the bedrock. A brief foray was made while the picnic was being prepared, after which we explored the site in depth. A canopy of Valonia Oak *Quercus ithaburensis* subsp. *macrolepis* provides light shade for a rich flora, with many Tongue Orchids *Serapias lingua* and *S. bergonii*, Bee Orchids *Ophrys villosa, heldreichii* and *bombyliflora*, the sweetly-scented shrub *Osyris alba* and *Cyclamen creticum*. Our next stop was near Georgioupolis, where a large natural spring comes to the surface and fills a dam, to create an important body of freshwater. Here, just a few waders included Wood Sandpiper, Common Sandpiper and Ruff, with Coot and Little Grebe on the water and many Balkan Terrapins basking on the muddy edges of the reeds. Before leaving Georgioupolis, we couldn't resist the temptation of a relaxing ice-cream and coffee break.

On the final leg of our journey, we made a visit to the Allied War Cemetery at the head of Souda Bay. The immaculately kept graves reminded us of the futility of war and we left, in reflective mood, for our hotel in Hania. Once we had settled in to our comfortable rooms, we walked down into the old Venetian part of the city and enjoyed a delicious meal in one of the many tavernas, near the harbour.

Day 6

Sunday 17th April

After breakfast, we made for Agia Lake. Fed by spring-water, this is the largest freshwater wetland in Crete and one of the best sites for birds on the island. Little Egret, Squacco and Purple Heron were seen along the edge of the fringe of reeds and a couple of European Reed Warblers flitted among the waterside vegetation, on the near bank. There were no Little Crake showing themselves but, as a consolation, we all had superb views of a Baillon's Crake, right in front of us.

We continued to our main destination of the day, the Omalos plateau, high in the White Mountains. After a stop to photograph the view, at Lakki, we followed the new road, now completed, but making a terrible scar on the landscape, that will take a long time to heal. We stopped in Omalos for coffee, before heading onto the plateau for lunch. There were, as usual, many pink *Tulipa bakeri* and lots of colourful Crown Anemones *Anemone coronaria* in the stony fields, but this year they were well past their best. A distant Cuckoo was calling and there were a number of Woodlark, singing from the treetops.

After our picnic, we made for the head of the Samaria Gorge to admire the magnificent views of the surrounding mountains. The familiar *Aubrieta deltoidea* grew on the slopes here and the car park had some fine specimens of the endemic relative of the elm *Zelkova abelicea*, just coming into leaf. We continued around the perimeter of the plateau, passing a seasonal freshwater pool, designated as a nature reserve. On its far bank were seven Wood Sandpipers, with singles of Common Sandpiper and Common Greenshank. Elsewhere on the plateau we saw Common Stonechat, Northern Wheatear, a couple of Black-eared Wheatear and a couple of Woodchat Shrike. We were back in Hania at 5.45pm and after catching up with our checklists, we walked to the harbour for our evening meal.

Day 7

Monday 18th April

We spent the morning exploring the shops, markets and other attractions of Hania. Later, we drove onto the Akrotiri peninsula, visiting the Agia Triada Monastery and its grounds, before moving to the stony headland for our last picnic among the ancient olive trees. Although low in numbers, there was clear evidence of northward bird migration, during the day. There were a few Woodlark and Crested Lark and during lunch we noted Woodchat Shrike, Spotted Flycatcher, Common Redstart and Common Whitethroat. Further on, in the grounds of the Gouverneto Monastery, we added a Collared Flycatcher and, overhead, we observed the movement of Common and Alpine Swift. It was the hottest day of our week with the mercury rising to 30°C and the low phrygana was parched and dry. Nevertheless, we did see two tiny endemic onions, *Allium rubrovittatum* and *Allium circinnatum*, the latter with grey, hairy leaves, coiled like watch-springs. On the stony path there were the small iris-like flowers of the One-leaved Barbary Nut *Moraea mediterranea*. We only ventured as far as the Cave of St John, which provided respite from the strong sun, before returning to the minibuses.

To round off a wonderful week in Crete, we drove out to Stavros, at the end of the peninsula for ice creams and coffee. It was here, on the beach that the dance, Zorba the Greek, starring Anthony Quinn, had been filmed. We stopped for some good views of a Booted Eagle and three Bonelli's Eagles, on the way back to Hania. After a final run through our checklists, we returned to our favourite restaurant, near the old harbour, for our last evening meal together.

Day 8

Tuesday 19th April

After breakfast, the two-hour drive east along the coast road was uneventful and we had sufficient time for a visit to the famous archaeological site at Knossos. We were back at the airport in good time for check-in and our flight back to Gatwick.

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Species Lists

Plants (• = endemic or near endemic to Crete, ± = cultivated or naturalised)

Plant classification largely follows the familiar 'old' system, likely to be encountered in current floras of the region. Recent taxonomic changes have been incorporated, where relevant. For ease of reference, families genera and species are presented in alphabetic order

Latin name	Common name	Notes
LYCOPODIOPSIDA	CLUBMOSSES	
Selaginellaceae	Lesser Clubmoss Family	
Selaginella denticulata	Mediterranean Clubmoss	Damp earth
EQUISETOPSIDA	HORSETAILS	
Equisetaceae	Horsetail Family	
Equisetum ramosissimum	Branched Horsetail	Hedges
Equisetum telmateia	Giant Horsetail	Wet areas. Agia
PTEROPSIDA	FERNS	
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
Polypodiaceae	Polypody Family	
Polypodium cambricum	Southern Polypody	Shaded cliffs. Imbros Gorge
		Ŭ
Pteridaceae	Maidenhair Fern Family	5
Adiantum capillus-veneris	Maidenhair Fern	Damp cliffs
Anogramma leptophylla Cheilanthes acrostica	Jersey Fern Scented Cheilanthes	Damp shaded earth Rock crevices
Chenantines acrostica	Scented Chenanthes	RUCK CIEVICES
Woodsiaceae	Lady-fern Family	
Athyrium felix-femina	Lady-fern	Shaded cliff. Imbros Gorge
Cystopteris fragilis	Brittle Bladder-fern	Mountain rocks. Uncommon
PINOPSIDA	CONIFERS	
Araucariaceae	Monkey-puzzle Family	
Araucaria heterophylla‡	Norfolk Island Pine	Cultivated. Coastal
Cupressaceae	Juniper Family	
Cupressus sempervirens forma. horizontalis	Cypress	Common. Sea-level to treeline
	0,9,000	

Cupressus sempervirens forma. sempervirens‡ Juniperus oxycedrus subsp. macrocarpa Juniperus oxycedrus subsp. oxycedrus Juniperus phoenicea subsp. phoenicea

Pinaceae Pinus halepensis subsp. brutia Pinus pinea‡

GNETOPSIDA

Ephedraceae Ephedra foeminea

MAGNOLIOPSIDA

MAGNOLIIDAE

Acanthaceae Acanthus spinosus

Aceraceae Acer sempervirens

Aizoaceae Carpobrotus edulis var. rubescens‡

Amaranthaceae Amaranthus retroflexus

Anacardiaceae Pistacia lentiscus Pistacia terebinthus Schinus molle‡

Apiaceae

Apium nodiflorum Bupleurum semicompositum Bunium ferulaceum Conium maculatum Crithmum maritimum Daucus carota Daucus guttatus Eryngium campestre Eryngium creticum Eryngium maritimum Ferula communis Foeniculum vulgare subsp. piperatum Lagoecia cuminoides Lecokia cretica Oenanthe pimpinelloides Orlaya daucoides

Common name

Italian Cypress

Sea Juniper Prickly Juniper Phoenicean Juniper

Pine Family Calabrian Pine Stone Pine

GNETOPHYTES

Joint-pine Family A Joint-pine

FLOWERING PLANTS

DICOTYLEDONS

Bear's-breech Family Spiny Bear's-breech

Maple Family Cretan Maple

Dewplant Family

Amaranth Family Pigweed

Sumach Family Mastic Tree Turpentine Tree Californian Pepper Tree

Carrot Family Fool's Watercress Grey Hare's Ear Balkan Pignut Hemlock **Rock Samphire** Wild Carrot A Wild Carrot Field Eryngo Cretan Eryngo Sea Holly **Giant Fennel** Fennel Fluffy Thimbleweed Lecokia Corky-fruited Water Dropwort An Orlava

Notes

Cultivated

Coastal Frequent. Mountains Occasional. Lowland

Frequent native tree Cultivated near coasts

Cliffs. Imbros Gorge

Frequent

Common. Mountains

Coastal alien

Weedy places

Common in maquis Frequent in maquis and gorges Cultivated

Occasional. Wet places Rocky places near sea-level Abandoned fields Hedges and roadsides Maritime rocks Frequent Coastal sand. Plakias Common Frequent Sand dunes Common Common Rocky phrygana Damp roadsides Moist woodland and fields Frequent

Pseudorlaya pumila Scandix australis Scandix pecten-veneris Smyrnium olusatrum Smyrnium perfoliatum subsp. perfoliatum Smyrnium perfoliatum subsp. rotundifolium Thapsia garganica Tordylium apulum Torilis leptophylla Torilis nodosa

Apocynaceae

Nerium oleander Plumeria rubra‡ Vinca major‡

Araliaceae Hedera helix

Aristolochiaceae

Aristolochia cretica• Aristolochia sempervirens

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 Centaurea argentea subsp. macrothysana• Centaurea calcitrapa Centaurea idaea• Centaurea poculatoris• Centaurea raphanina subsp. raphanina• Centaurea solstitialis Centaurea spinosa Centaurea spruneri subsp. minoa• Chondrilla juncea Cichorium intybus Cichorium spinosum

Common name

Dune Carrot Southern Shepherd's-needle Shepherd's-needle Alexanders Perfoliate Alexanders Perfoliate Alexanders Thapsia Mediterranean Hartwort A Bur-parsley Knotted Bur-parsley

Periwinkle Family Oleander Frangipani Greater Periwinkle

Ivy Family Ivy

Birthwort Family Cretan Birthwort Evergreen 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 A Knapweed Red Star-thistle

Yellow Star-thistle Spiny Knapweed

Rush Skeletonweed Chicory Spiny Chicory

Notes

Sand dunes. Plakias Occasional. Rocky places Common Common Locally common Locally common Rocky places. Fields Common Frequent Common

Riverbeds. Planted on roadsides Cultivated Garden escape

Common

Locally common Agia Lake

Avlaki 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 Imbros Gorge Occasional Rock crevices in phrygana Cliffs. Imbros Gorge Common on rocks Occasional North coast beaches Fallow fields Sandy and waste places Roadsides Common

Cirsium vulgare Conyza bonariensis‡ Crepis auriculifolia• Crepis cretica• Crepis rubra 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 Hedypnois cretica Helichrysum conglobatum Helichrysum microphyllum 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 syriaca Onopordum bracteatum subsp. creticum• Onopordum tauricum Otanthus maritimus Pallenis spinosa Phagnalon graecum Picnomon acarna Ptilostemon chamaepeuce Pulicaria odora Rhagadiolus stellatus Reichardia picroides Scolymus hispanicus Scorzonera cretica• Senecio rupestris Senecio vulgaris Silybum marianum Sonchus asper Sonchus bulbosus subsp. microcephalus

Common name

Spear Thistle Argentine Fleabane A Hawk's-beard Cretan Hawk's-beard Pink 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 Salsify Crown Daisy Crown Daisy Corn Marigold Hedypnois Golden Cassidony A Curry Plant **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 Scotch Thistle

Cottonweed Spiny Golden-star Shrubby Cudweed Yellow-spine Thistle Shrubby Ptilostemon A Fleabane Star Hawkbit A Reichardia Spanish Oyster Plant Cretan Viper's-grass Rock Groundsel Groundsel Milk Thistle Prickly Sow-thistle Tuberous Hawk's-beard

Notes

Weedy places Frequent on roadsides Cliffs and rocky places Rocky places Uncommon 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 Phrygana and fallow fields Rocky places Rocky places in mountains 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 Maguis and woodland Common Rocky places and coastal sand Waste areas Cliffs Kotsifou Gorge Common Common. Waste areas Waste areas Widespread

Sonchus oleraceus Staehelina fruticosa Staehelina petiolata• Tanacetum parthenium‡ Tolpis barbata Tragopogon porrifolius Tyrimnus leucographus Urospermum picroides Xanthium spinosum‡ Xanthium strumarium‡ Xeranthemum inapertum

Berberidaceae Berberis cretica

Bignoniaceae

Jacaranda ovalifolia‡

Boraginaceae

Alkanna sieberi Alkanna tinctoria Anchusa hybrida Anchusa aegyptiaca Anchusa italica Anchusa variegata Borago officinalis Cerinthe major Cynoglossum columnae Cynoglossum creticum Echium angustifolium Echium arenarium Echium italicum subsp. biebersteinii Echium plantagineum Lithospermum incrassatum Myosotis incrassata Neatostema apulum Onosma erectum Onosma graecum Symphytum creticum

Brassicaceae

Aethionema saxatile subsp. creticum Alyssum simplex Arabidopsis thaliana Arabis alpina Arabis verna Aubrieta deltoidea Aurinia saxatilis Biscutella didyma Brassica cretica subsp. cretica Brassica nigra ‡ Bunias erucago

Common name

Smooth Sow-thistle

Feverfew Tolpis Salsify Tyrimnus Prickly Goldenfleece Spiny Cocklebur Cocklebur Xeranthemum

Barberry Family Cretan Barberry

Jacaranda Family Jacaranda

Borage Family

An Alkanet

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

Cabbage Family

Burnt Candytuft An Alison Thale Cress Alpine Rock-cress Spring Rock-cress Aubretia Yellow Alyssum Buckler Mustard Cretan Cabbage Black Mustard Bunias Notes

Waste areas Cliffs Cliffs Occasional. Roadsides Occasional in phrygana Common Disturbed ground Disturbed ground Alien weed Alien weed Stony phrygana

Mountains

Cultivated

Occasional. Weedy places and phrygana Dry rocky places Roadsides Dry places near sea-level Roadsides Imbros Gorge Weedy places **Turkish Bridge** Occasional Common Common near coast Sand dunes Common Common Mountain rocks Rocky places Rocky phrygana. Coastal Mountain rocks Armeni Minoan Cemetery Shady cliffs

Dry rocky places Dry rocky places Common Mountain rocks Frequent Omalos Cliffs Common Imbros Gorge Roadsides Weedy places

Cakile maritima Capsella bursa-pastoris Cardamine hirsuta Cheiranthus cheiri‡ 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 cretica• Campanula erinus Campanula tubulosa• Legousia speculum-veneris Legousia pentagonia Petromarula pinnata•

Capparaceae Capparis spinosa

Caprifoliaceae Lonicera etrusca Sambucus ebulus Sambucus nigra‡

Caryophyllaceae

Cerastium comatum Cerastium glomeratum Cerastium scaposum• Moenchia graeca Paronychia macrosepala Petrorhagia dianthoides• Petrorhagia velutina Sagina apetala Silene behen Silene behen Silene colorata

Common name

Sea Rocket Shepherd's-purse Hairy Bitter-cress Wallflower 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

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

Caper Family Caper

Honeysuckle Family Etruscan Honeysuckle Dwarf Elder Elder

Pink Family Levantine Mouse-ear Sticky Mouse-ear Cretan Mouse-ear An Upright Chickweed A Paronychia A Tunic Flower Kohlrauschia Annual Pearlwort Hairless Catchfly Daisy-leaved Catchfly Mediterranean Catchfly Notes

Plakias beach Common Common Garden escape 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

Imbros Gorge Frequent Plakias headland Rocky places Rocky places Common

Frequent on cliffs

Occasional Occasional Naturalised around villages

Occasional Omalos Locally common Frequent Frequent Imbros Gorge Frequent. Rocky places Common Coastal sand. Rocky places Waste areas Common

Silene cretica Silene dichotoma Silene gallica Silene gigantea Silene integripetala subsp. greuteri• Silene sedoides Silene sieberi• Silene vulgaris Spergula arvensis Spergularia bocconei Stellaria cupaniana Stellaria media

Chenopodiaceae

Beta vulgaris subsp. maritima Chenopodium album Chenopodium murale Salsola kali Suaeda vera

Cistaceae

Cistus creticus Cistus monspeliensis Cistus parviflorus Cistus salvifolius Fumana arabica Fumana thymifolia Helianthemum salicifolium Tuberaria guttata

Convolvulaceae

Convolvulus althaeoides Convolvulus arvensis Convolvulus elegantissimus Convolvulus oleifolius 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

Common name

Cretan Catchfly Forked Catchfly Small-flowered Catchfly

Hairy Catchfly

Bladder Campion Corn Spurrey A Sea Spurrey A Chickweed Common Chickweed

Goosefoot Family

Sea Beet Fat-hen Nettle-leaved Goosefoot Prickly Saltwort Shrubby Sea-blite

Rock-rose Family

Pink Cistus Narrow-leaved Cistus Small-flowered Cistus Sage-leaved Cistus Arabian Fumana Thyme-leaved Fumana Willow-leaved Rock-rose Spotted Rock-rose

Bindweed Family

Mallow-leaved Bindweed Field Bindweed Elegant Bindweed Olive-leaved Bindweed Common Dodder A Morning Glory

Stonecrop Family

Biting Stonecrop White Stonecrop

Coastal Stonecrop

Red Stonecrop Mediterranean Stonecrop A Pennywort Yellow Pennywort

Notes

Frequent Gious Kambos and Melambes Common Cliffs. Kotsifou Gorge Rocky places in gorges Coastal sand Rocky places Frequent Fallow fields Maritime sand Weedy places Common. Weedy places

Maritime sand Waste areas Waste areas Plakias beach Coastal rocks

Common Frequent in maquis Local in maquis Locally common Common. Rocky places Common. Rocky places Phrygana Open rocky phrygana

Common Frequent. Waste places Frequent in phrygana Dry rocky places 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 Shaded cliffs

Cucurbitaceae Bryonia cretica Ecballium elaterium

Cytinacae Cytinus hypocistis subsp. clusii

Dipsacaceae Knautia integrifolia Lomelosiabrachiata Pterocephalus plumosus

Ericaceae Arbutus andrachne Arbutus unedo Erica arborea

Erica manipuliflora **Euphorbiaceae** Euphorbia acanthothamnos Euphorbia chamaesyce Euphorbia characias subsp. characias Euphorbia dendroides Euphorbia exigua Euphorbia falcata subsp. falcata Euphorbia helioscopia

Euphorbia paralias Euphorbia peplis Euphorbia peplus Euphorbia sultan-hassei• Mercurialis annua Ricinus communis‡

Fabaceae

Anagyris foetida Anthyllis hermanniae Anthyllis tetraphylla Anthyllis vulneraria subsp. rubriflora Astragalus angustifolius Bituminaria bituminosa Calicotome villosa Ceratonia siliqua Cercis siliquastrum‡ Coronilla scorpioides Ebenus cretica• Genista acanthoclada Hedysarum spinosissimum Hippocrepis biflora Hymenocarpus circinnatus Lathyrus annuus Lathyrus aphaca Lathyrus cicera Lathyrus clymenum

Common name

Cucumber Family White Bryony Squirting Cucumber

Cytinus Family Cytinus

Teasel Family A Scabious Tremastelma Annual Pterocephalus

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 Sickle Spurge Sun Spurge Sea Spurge Purple Spurge Petty Spurge A Tree Spurge Annual Mercury Castor-oil-plant

Pea Family

Bean Trefoil Herman's Kidney Vetch Bladder Vetch A Kidnev Vetch A Milk-vetch **Pitch Trefoil** Hairy Thorny Broom Carob Judus Tree Annual Scorpion Vetch Shrubby Sainfoin Spiny Broom Spiny Sainfoin A Horseshoe Vetch **Disc Trefoil** Annual Vetchling Yellow Vetchling Flat-podded Vetchling Crimson Pea

Notes

Frequent Waste places

Parasitic on Cistus creticus

Occasional in phrygana Rocky places Rocky places

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

Common Bare ground Widespread Maritime cliffs Bare ground Abandoned fields Widespread Maritime sand Sandy beaches Bare ground Cliffs. Imbros Gorge Common Frequent naturalised weed

Scrub and waste areas Occasional Common Common Common above Omalos Common Common Common Frequently cultivated Common Cliffs and hillsides Common Stony and sandy places near the sea Rocky places Widespread Widespread Widespread Olive groves and stony hillsides Frequent

Lathyrus ochrus Lathyrus setifolius Lathyrus sphaericus Lotus conimbricensis Lotus corniculatus Lotus cytisoides Lotus edulis Lotus ornithopodioides Lotus pedunculatus Lotus peregrinus Lupinus albus‡ Lupinus angustifolius Lupinus micranthus

Lupinus pilosus

Medicago arabica Medicago arborea Medicago disciformis Medicago lupulina Medicago marina Medicago murex 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 Trifolium nigrescens Trifolium repens Trifolium resupinatum Trifolium stellatum Trifolium subterraneum Trifolium tomentosum Trifolium uniflorum Trigonella balansae Trigonella graeca Vicia bithynica Vicia cretica

Common name

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 Narrow-leaved Lupin A Hairy Lupin A Hairy Lupin Spotted Medick Tree Medick **Disc Medick** Black Medick Sea Medick A Bur 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 Annual White Clover White Clover **Reversed Clover** Starry Clover **Burrowing Clover** Woolly Trefoil **One-flowered Clover** A Fenugreek A Trigonella **Bithynian Vetch** Cretan Vetch

Notes

Armeni Frequent Frequent Fallow fields Damp places Sands and rocks near the sea Widespread Widespread Damp places Occasional near the sea Occasional Stony ground Fallow fields Locally common. Sometimes cultivated Occasional Cultivated and naturalised Stony ground near the sea Common Sand dunes Rocky places 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 Moist habitats Widespread Coastal sands Common Olive groves and fallow fields Fields and rocky places Widespread Mostly coastal in north Disturbed ground Widespread Rocky places

Vicia hybrida 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 Blackstonia perfoliata subsp. intermedia Centaurium erythraea Centaurium maritimum

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‡

Lamiaceae Ballota acetabulosa

Common name

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 Yellow-wort Common Centaury Sea 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

Walnut Family Walnut

Dead-nettle Family Garden Horehound

Notes

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

Damp places Rocky places Coastal

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

Riverbeds near sea-level

Ballota nigra Ballota pseudodictamnus Clinopodium alpinum subsp. alpinum Clinopodium creticum • Clinopodium vulgare Coridothymus capitatus Lamium amplexicaule Lavandula stoechas Marrubium vulgare Melittis melissophyllum subsp. albida Mentha aquatica Mentha longifolia Mentha pulegium 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

Linaceae

Linum arboreum Linum bienne Linum pubescens

Malvaceae

Alcea biennis Althaea hirsuta Hibiscus rosa-sinensis‡ Lavatera arborea

Common name

Black Horehound False Dittany Alpine Basil Thyme Cretan Calamint Wild Basil Shrubby Thyme Henbit Dead-nettle French Lavender White Horehound **Bastard Balm** Water Mint Horse Mint Pennyroyal Spear Mint Micromeria A Cat-mint Cretan Dittany White Marjoram Marjoram Cretan Jerusalem Sage Jerusalem Sage Prasium Cut-leaved Self-heal Self-heal Three-lobed 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

Flax Family

Shrubby Flax Biennial Flax Hairy Flax

Mallow Family

Wild Hollyhock Hairy Mallow Hibiscus Tree Mallow

Notes

Waste places Rocky phrygana Rocky places in mountains Imbros Gorge Maquis and phrygana Common Common Local in maguis Waste places Gorge bed. Imbros Wet places Wet places Damp places Damp places Rocky places Rocky places Rare. Agia Triada Cliffs Omalos plateau Occasional Frequent in maguis 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

Cliffs in gorges Frequent Rocky places

Occasional Frequent Cultivated Coast. Hania

Lavatera bryonifolia Lavatera cretica Malva cretica Malva parviflora Malva sylvestris

Meliaceae Melia azedarach‡

Mimosaceae Acacia cyanophylla‡ Acacia pycnantha‡ Acacia retinoides‡

Moraceae Ficus carica Ficus elastica‡ Morus alba‡

Myoporaceae Myoporum laetum‡

Myrtaceae Callistemon viminalis‡ Eucalyptus camaldulensis‡ Myrtus communis

Nyctaginaceae Bougainvillea glabra‡

Oleaceae Olea europaea subsp. oleaster Phillyrea latifolia

Onagraceae Epilobium hirsutum

Orobanchaceae Orobanche alba Orobanche crenata Orobanche lavandulacea Orobanche pubescens Orobanche ramosa

Oxalidaceae Oxalis pes-caprae‡

Papaveraceae Glaucium flavum Hypecoum procumbens Papaver argemone subsp. nigrotinctum Papaver dubium subsp. dubium Papaver hybridum

Common name

Bryony-leaved Mallow Cretan Hollyhock Cretan Mallow Least Mallow Common Mallow

Mahogany Family Persian Lilac

Acacia Family Blue-leaved Wattle Golden Wattle Swamp Wattle

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 Thyme Broomrape Bean Broomrape Lavender Broomrape Downy Broomrape Branched Broomrape

Wood-sorrel Family Bermuda Buttercup

Poppy Family Yellow Horned Poppy Sickle-fruited Hypecoum Prickly Poppy Long-headed Poppy Rough Poppy Notes

Common Waste areas Rocky places Rocky places near the sea Common

Cultivated

Cultivated Cultivated Cultivated

Frequent Cultivated Cultivated

Cultivated

Cultivated Cultivated Occasional along watercourses

Cultivated

Occasional in phrygana Occasional in maquis

Wet ditches

Occasional Parasitic on *Vicia faba* Parasitic on *Bituminaria* Parasitic on Umbellifers Common on *Oxalis pes-caprae*

Common weed

Coast Akrotiri peninsula Cropped land Uncommon Uncommon

Papaver rhoeas

Phytolaccaceae Phytolacca americana‡

Pittosporaceae Pittosporum tobira‡

Plantaginaceae Plantago afra Plantago bellardii Plantago cretica Plantago lagopus Plantago lanceolata Plantago major Plantago weldenii

Platanaceae Platanus orientalis

Plumbaginaceae Limonium graecum Limonium sinuatum

Polygalaceae Polygala monspeliaca Polygala myrtifolia‡ Polygala venulosa

Polygonaceae Emex spinosa Persicaria salicifolia Polygonum aviculare Polygonum equisetiforme Polygonum maritimum Rumex bucephalophorus Rumex conglomeratus Rumex crispus Rumex pulcher Rumex tuberosus subsp. creticus

Portulacaceae Portulaca oleracea

Primulaceae

Anagallis arvensis var. arvensis Anagallis arvensis subsp. foemina Anagallis foemina Asterolinon linum-stellatum Cyclemen creticum• Cyclamen graecumsubsp. candicum• Primula vulgaris Samolus valerandi Common name

Common Poppy

Pokeweed Family American Pokeweed

Pittosporum Family A Pittosporum

Plantain Family Glandular Plantain Hairy Plantain A Plantain Hare's-foot Plantain Ribwort Plantain Greater Plantain A Buck's-horn Plantain

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 Emex Willow-leaved Knotgrass Knotgrass Horsetail Knotgrass Sea Knotgrass Bull's-head Dock Clustered Dock Curled Dock Fiddle Dock Tuberous Dock

Purslane Family Purslane

Primrose Family

Scarlet Pimpernel Blue Pimpernel A Pimpernel Asterolinon Cretan Sowbread A Greek Sowbread Primrose Brookweed Common

Notes

Naturalised

Cultivated

Common Common Rocky places near coast Frequent Olive groves. Damp places Damp places Coastal

River valleys

Cliffs. Plakias Coastal sands

Occasional Cultivated Frequent

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

Disturbed ground

Common Common Frequent Locally common Widespread Damp woodland Wet rocks. Georgioupolis

Latin name Common name Notes Punicaceae **Pomegranate Family** Punica granatum‡ Pomegranate Cultivated Ranunculaceae **Buttercup Family** Adonis microcarpa subsp. cretica• Yellow Pheasant's-eye Akrotiri peninsula Adonis microcarpa subsp. microcarpa Yellow Pheasant's-eye Red-flowered Gious Kambos. Omalos **Crown Anomone** Anemone coronaria Anemone hortensis subsp. heldreichii Heldreich's Anemone Widespread Occasional. Maguis and roadsides Clematis cirrhosa Virgin's Bower Delphinium staphisagria Lice Bane Imbros Gorge Ficaria verna subsp. chrysocephala A Lesser Celandine Common Nigella damascena Love-in-a-Mist Plakias headland Ranunculus arvensis Corn Buttercup Fields Ranunculus asiaticus **Turban Buttercup** Locally common Ranunculus bulbosus subsp. aleae **Bulbous Buttercup** Moist shady places Locally common. Autumn-flowering Ranunculus bullatus Ranunculus chius Widespread Ranunculus cupreus• Rocky places Ranunculus cytheraeus Locally common. Autumn-flowering Ranunculus creticus• Cretan Buttercup Shady cliffs Ranunculus gracilis Frequent Ranunculus muricatus **Rough-fruited Buttercup** Moist places Ranunculus paludosus Jersey Buttercup Locally common Ranunculus peltatus subsp. fucoides Pond Water-crowfoot Seasonal pond. Omalos plateau Ranunculus sprunerianus Open areas. Mountains Ranunculus subhomophyllus Above Omalos plateau Ranunculus trichophyllus Thread-leaved Water-crowfoot Aquatic Resedaceae **Mignonette Family** Reseda alba White Mignonette Waste areas Waste areas

Reseda lutea Reseda luteola

Rhamnaceae Rhamnus lycioides subsp. oleoides

Rosaceae

Amelanchier ovalis subsp. cretica• Crataegus monogyna Cydonia oblonga‡ Eriobotrya japonica‡ Poterium sanguisorba subsp. verrucosa Prunus dulcis‡ Prunus persica‡ Prunus prostrata Pyracantha coccinea‡ Pyrus communis‡ Pyrus spinosa Rosa canina Rosa sempervirens Rubus sanctus Sarcopoterium spinosum

Mignonette Weld

Buckthorn Family A Buckthorn

Rose Family

Cretan Juneberry Hawthorn Quince Japanese Loguat Salad Burnet Almond Peach Rock Cherry Firethorn **Domestic Pear** Almond-leaved Pear Dog-rose **Evergreen Rose** A Bramble Thorny Burnet

Waste areas

Frequent in phrygana

Local in mountains Common Cultivated Cultivated Frequent Cultivated Cultivated Mountain rocks. Omalos Cultivated Cultivated Common Frequent Frequent Common Common

Tour Report

Latin name

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

Saxifragaceae Saxifraga rotundifolia subsp. chrysospleniifolia

Scrophulariaceae

Bellardia trixago Cymbalaria muralis Kickxia elatine subsp. sieberi Linaria pelisseriana Misopates orontium Parentucellia latifolia Parentucellia viscosa Scrophularia auriculata Scrophularia lucida Scrophularia peregrina Verbascum arcturus• Verbascum macrurum Verbascum sinuatum Verbascum spinosum• Veronica anagallis-aquatica Veronica arvensis Veronica cymbalaria Veronica persica‡

Simaroubaceae Ailanthus altissima‡

Solanaceae Hyoscyamus albus Lycium barbarum‡

Common name

Bedstraw Family

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

Rue Family

Lemon Orange Fringed Rue

Willow Family White Poplar White Willow

Bastard-toadflax Family Osyris

Saxifrage Family Chrysosplenium-leaved Saxifrage

Figwort Family

Bellardia Ivy-leaved Toadflax Sharp-leaved Fluellen Jersey Toadflax Weasel's-snout Southern Red Bartsia Yellow Bartsia Water Figwort Shining Figwort Nettle-leaved Figwort Shrubby Mullein A Mullein Wavy-leaved Mullien Spiny Mullein Water Speedwell Wall Speedwell Cymbalaria-leaved Speedwell **Common Field Speedwell**

Tree-of-heaven Family Tree-of-heaven

Nightshade Family White Henbane Duke of Argyll's Teaplant

Notes

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

Locally common

Frequent in meadows Walls Agia Lake Frequent in phrygana Occasional Common Occasional. Damp places Wet ditches Occasional Common. Imbros Gorge Common on cliffs Common Common Common Streams Widespread Widespread Naturalised near the sea

Naturalised

Weedy places and walls. Hania Naturalised near the coast

Mandragora autumnalis Nicotiana glauca‡ Solandra maxima‡ Solanum nigrum Solanum villosum

Styracaceae Styrax officinalis

Tamaricaceae Tamarix parviflora Tamarix smyrnensis‡

Thymelaeaceae

Daphne gnidioides Daphne sericea Thymelaea hirsuta Thymelaea tartonraria

Ulmaceae Celtis tournefortii Ulmus minor‡ Zelkova abelicea•

Urticaceae

Parietaria cretica Parietaria judaica Urtica membranacea Urtica pilulifera Urtica urens

Valerianaceae Centranthus calcitrapa Centranthus ruber‡ Fedia cornucopiae Valeriana asarifolia• Valerianella coronata

Verbenaceae Lantana camara‡ Lippia nodiflora Verbena officinalis Vitex agnus-castus

Vitaceae Vitis vinifera subsp. sylvestris Vitis vinifera subsp. vinifera

Zygophyllaceae Tribulus terrestris

Common name

Mandrake Shrub Tobacco Golden Chalice Vine Black Nightshade Hairy Nightshade

Storax Family Mediterranean Storax

Tamarisk Family Small-flowered Tamarisk A Tamarisk

Mezereon Family A Daphne A Daphne Hairy Thymelaea A Thymelaea

Elm Family Oriental Hackberry Small-leaved Elm Cretan Zelkova

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

Valerian Family

Annual Valerian Red Valerian Fedia Cretan Valerian A Corn Salad

Vervain Family Lantana

Vervain Chaste Tree

Vine Family Wild Vine Grape Vine

Caltrop Family Maltese Cross Notes

Frequent Naturalised along roadsides Cultivated. Komitades Weedy places Damp places

Frequent

Coastal Planted. Plakias beach

Plakias headland Common in mountains Rocky places near the sea Rocky places near the sea

Imbros Gorge Occasional. Planted Omalos plateau

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

Rocky places Walls Rocky places Cliffs and rocky places Rocky places

Cultivated Damp grassland. Souda Frequent. Waste areas Gorge-beds and damp places

Occasional Cultivated

Waste areas

LILIIDAE

Amaryllidaceae

Allium ampeloprasum Allium circinnatum subsp. circinnatum• Allium neapolitanum Allium nigrum Allium roseum Allium subhirsutum Allium trifoliatum Pancratium maritimum

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 creticum• Ornithogalum narbonense Ornithogalum sibthorpii Ruscus aculeatus

Colchicaceae Colchicum macrophyllum

Cyperaceae

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

Dioscoreaceae Tamus communis

Common name

MONOCOTYLEDONS

Daffodil Family Wild Leek

Naples Garlic Black Garlic Rosy Garlic Hairy Garlic

Sea Daffodil

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 Southern Star-of-Bethlehem A Star-of-Bethlehem Butcher's-broom

Meadow Saffron Family Large-leaved Meadow Saffron

Sedge Family

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

Yam Family Black Bryony

Notes

Occasional Akrotiri peninsula Occasional Meadows Occasional Occasional Cultivated fields Sand dunes

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 Occasional. Limestone crevices Frequent Mountain turf Shady areas

Abandoned fields

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

Woodland and scrub

Iridaceae

Gladiolus italicus Iris albicans‡ Iris germanica‡ Iris pseudacorus Iris tuberosa Iris unguicularis subsp. cretensis• Moraea mediterranea Moraea sisyrinchium

Juncaceae

Juncus acutus Juncus articulatus Juncus bufonius Juncus effusus Juncus heldreichianus

Liliaceae

Fritillaria messanensis Gagea graeca Gagea peduncularis Tulipa bakeri• Tulipa cretica• Tulipa doerfleri• Tulipa saxatilis

Orchidaceae

Anacamptis boryi Anacamptis collina Anacamptis fragrans Anacamptis laxiflora Anacamptis papilionacea subsp. heroica Anacamptis pyramidalis Himantoglossum robertianum Limodorum arbortivum Neotinea lactea Neotinea tridentata Ophrys apifera Ophrys ariadnae Ophrys bombyliflora Ophrys creberrima Ophrys cretica Ophrys doerfleri Ophrys episcopalis Ophrys gortynia Ophrys heldreichii Ophrys iricolor Ophrys leochroma Ophrys phryganae Ophrys sicula Ophrys villosa Orchis anatolica Orchis anthropophora

Common name

Iris Family

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

Rush Family

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

Lily Family

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

Orchid Family

Bory's Orchid Fan-lipped Orchid Fragrant Bug Orchid Jersey Orchid Heroic Pink Butterfly Orchid Pyramidal Orchid **Giant Orchid** Violet Limodore Milky Orchid **Toothed Orchid** Bee Orchid Ariadne's Orchid **Bumblebee Orchid** Creberrima Orchid Common Cretan Bee Orchid Doerfler's Orchid Large-flowered Bee Orchid Gortvs Orchid Heldreich's Orchid Rainbow Orchid Lion Mane Orchid Phrygana Orchid Small Yellow Bee Orchid Hairy Orchid Anatolian Orchid Man Orchid

Notes

- Frequent Planted Planted Agia Lake Gious Kambos and Omalos Locally common Akrotiri peninsula Common
- Maritime sands Wet places Wet places Wet places Coastal marshes. Maritime sands
- Gious Kambos Common Omalos plateau Omalos plateau Cliffs. Plakias Gious Kambos Gious Kambos

Spili hill Locally common Spili hill Damp meadows Occasional Locally common Locally common Shade Spili hill Spili hill Plakias Frequent Spili hill and Armeni Spili hill Occasional Melambes Frequent Local Common Spili hill Locally frequent Frequent Common Frequent Near Spili Spili hill and Armeni

Orchis italica Orchis pauciflora Orchis quadripunctata Orchis sitiaca• Serapias bergonii Serapias cordigera subsp. cretica• Serapias lingua

Poaceae

Aegilops biuncialis Aegilops geniculata Arundo donax‡ Ammophila arenaria Andropogon distachyos Anthoxanthum odoratum Avena barbata Avena sterilis Brachvpodium 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 Piptantherum miliaceum Poa annua Polypogon monspeliensis Rostraria cristata Sesleria doerfleri• Stipa capensis Vulpia ciliata

Posidoniacae Posidonia oceanica

Smilacaceae Smilax aspera

Typhaceae Typha domingensis

Common name

Naked Man Orchid Sparse-flowered Orchid Four-spotted Orchid Sitia 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 Winter Wild-oat Mediterranean False-brome Large Quaking-grass Lesser Quaking-grass Sea Fern-grass Fern-grass Bermuda Grass Rough Dog's-tail Hairy Finger-grass Wall Barley **Thatching Grass** Hare's-tail Grass Golden Dog's-tail Perennial Rye-grass Darnel Hairy Melick Curved Hard-grass Common Reed **Rice-grass** Annual Meadow-grass Annual Beard-grass **Crested Hair-grass** Doerfler's Moor-grass Mediterranean Needle-grass **Bearded Fescue**

Neptune-grass Family Neptune-grass

Smilax Family Common Smilax

Reedmace Family Southern Reedmace

Notes

Common Locally common Common Spili hill Common Agia Triada Common

Frequent Occasional Naturalised and common Sand dunes Rocky places. Roadsides Damp places. Fields Disturbed ground Fallow land Widespread Disturbed ground Moist ground Maritime Bare stony ground Disturbed ground Rocky places. Fields Roadsides Roadsides. Waste places Widespread Common Frequent Widespread Fields and waste places Imbros Gorge Maritime sands Marshes and riverbanks Olive groves. Waste areas Waste places Wet places Widespread Kotsifou Gorge Rocky places and fields Bare stony ground and fields

Marine

Common

Agia Lake

Latin name	Common name	Notes
Xanthorrhoeaceae	Asphodel Family	
Asphodeline lutea	Yellow Asphodel	Common
Asphodelus aestivus	Common Asphodel	Common
Asphodelus fistulosus	Hollow-stemmed Asphodel	Ditches and roadsides
Zosteraceae	Eelgrass Family	
Zostera marina	Eelgrass	Marine

Birds (<=recorded but not counted; H = heard only)

			April								
	Common name	Latin name	12	13	14	15	16	17	18	19	
1	Chukar	Alectoris chukar		1							
2	Little Grebe	Tachybaptus ruficollis					6	12			
3	Great Cormorant	Phalacrocorax carbo				1	1				
4	Squacco Heron	Ardeola ralloides						1			
5	Little Egret	Egretta garzetta	2		1			1			
6	Purple Heron	Ardea purpurea						1			
7	Griffon Vulture	Gyps fulvus	20	10	10	6	2	4			
8	Booted Eagle	Aquila pennatus			1			2	1		
9	Bonelli's Eagle	Aquila fasciata	1	1	1		1		3		
10	Western Marsh Harrier	Circus aeruginosus				1					
11	Common Buzzard	Buteo buteo	2	2	10	4	6	6	2		
12	Common Kestrel	Falco tinnunculus	2	2	2	2	2	2	4		
13	Baillon's Crake	Porzana pusilla						1			
14	Common Moorhen	Gallinula chloropus					6	7			
15	Eurasian Coot	Fulica atra					12	30			
16	Black-winged Stilt	Himantopus himantopus			6						
17	Little Ringed Plover	Charadrius dubius			6						
18	Little Stint	Calidris minuta			12						
19	Wood Sandpiper	Tringa glareola			4		4	7			
20	Common Sandpiper	Actitis hypoleucos			1		1	1			
21	Common Redshank	Tringa totanus			1						
22	Spotted Redshank	Tringa erythropus			2						
23	Common Greenshank	Tringa nebularia			2			1			
24	Ruff	Philomachus pugnax			8		1				
25	Yellow-legged Gull	Larus michahellis	6	1	30	4	6	30	10	10	
26	Rock Dove / Feral Pigeon	Columba livia	✓	✓	✓	✓	✓	✓	✓	✓	
27	Eurasian Collared Dove	Streptopelia decaocto	✓	✓	✓	✓	✓	✓	✓	✓	
28	Common Cuckoo	Cuculus canorus						н			
29	Eurasian Scops Owl	Otus scops				н					
30	Common Swift	Apus apus	6				100	100	40	10	
31	Pallid Swift	Apus pallidus						20			
32	Alpine Swift	Tachymarptis melba	10	6	6		30	4	30		
33	Eurasian Hoopoe	Upupa epops				1					
34	European Bee-eater	Merops apiaster			н				н		
35	Eurasian Wryneck	Jynx torquilla					н	н			
36	Crested Lark	Galerida cristata	н	10	6	10	10	1	6		
37	Woodlark	Lullula arborea	Н	6				10	4		
38	Eurasian Crag Martin	Ptyonoprogne rupestris			4	6	3	2			
39	Barn Swallow	Hirundo rustica	20	20	20	10	10	10	20	10	
40	Red-rumped Swallow	Cecropis daurica			2						

						Α	pril			
	Common name	Latin name	12	13	14	15	16	17	18	19
41	Common House Martin	Delichon urbicum				1			10	
42	White Wagtail	Motacilla alba	1		2				1	
43	Blue-headed Yellow Wagtail	Motacilla flava flava		3	1			2		
44	Grey Wagtail	Motacilla cinerea					1			
45	Common Nightingale	Luscinia megarhynchos						Н		
46	Common Redstart	Phoenicurus phoenicurus		1					3	
47	Northern Wheatear	Oenanthe oenanthe		2	1			6		
48	Black-eared Wheatear	Oenanthe hispanica		3	Н	3		2	4	
49	Whinchat	Saxicola rubetta		1		1				
50	Common Stonechat	Saxicola torquata		20	10	10	6	6	6	
51	Song Thrush	Turdus philomelos	н							
52	Common Blackbird	Turdus merula	2	2	5	4	6	4	4	2
53	Blue Rock Thrush	Monticola solitarius	2	1	Н	н	2			
54	Blackcap	Sylvia atricapilla	н	н	Н	н	н	н		
55	Common Whitethroat	Sylvia communis							1	
56	Sardinian Warbler	Sylvia melanocephala	2	3	н	4	2	2	4	
57	Cetti's Warbler	Cettia cetti		н	н		н	н	н	
58	European Reed Warbler	Acrocephalus scirpaceus						2		
59	Great Reed Warbler	Acrocephalus arundinaceus				1	Н			
60	Icterine Warbler	Hippolais icterina					1			
61	Willow Warbler	Phylloscopus trochilus				н		2		
62	Eurasian Wren	Troglodytes troglodytes				3	н			
63	Spotted Flycatcher	Muscicapa striata							2	
64	Pied Flycatcher	Ficedula hypoleuca		1						
65	Collared Flycatcher	Ficedula albicollis							1	
66	Great Tit	Parus major	2	2	6	4	4	2	3	
67	European Blue Tit	Cyanistes caeruleus	2	2	1	4	4	2	4	
68	Woodchat Shrike	Lanius senator					1	2	5	
69	Eurasian Jay	Garrulus glandarius				1		1		
70	Western Jackdaw	Corvus monedula	~	~	6	1	10			
71	Red -billed Chough	Pyrrhocorax pyrrhocorax	✓	6	4		2			
72	Alpine Chough	Pyrrhocorax graculus	✓		✓					
73	Hooded Crow	Corvus cornix	✓	✓	✓	✓	✓	✓	✓	√
74	Common Raven	Corvus corax	4	4	6	4	6	2	2	
75	Italian Sparrow	Passer italiae	√	√	√	√	√	 ✓	_ ✓	~
76	Common Chaffinch	Fringilla coelebs	✓	✓	✓	✓	✓	✓	✓	✓
77	Common Linnet	Linaria cannabina		3				2	1	<u> </u>
78	European Goldfinch	Carduelis carduelis	3	6	6	6	6	6	6	
79	European Greenfinch	Chloris chloris	1	1		-			-	<u> </u>
80	European Serin	Serinus serinus		2			H	1	н	
81	Ortolan Bunting	Emberiza hortulana		1						
82	Cirl Bunting	Emberiza cirlus		· ·			Н	1		<u> </u>
83	Corn Bunting	Emberiza calandra		6	6	6	Н	2		

Mammals (D = dead, C = captive)

1	Cretan Spiny Mouse	Acomys minous		D						
2	Beech Marten	Martes foina bunites	D	D		D	D	D	D	
3	Cretan Badger	Meles meles arkalus	D		D					
4	Cretan Wild Goat or Kri Kri ‡	Capra aegagrus creticus						С		

		April							
Common name	Latin name	12	13	14	15	16	17	18	19

Reptiles

1	Balkan Green Lizard	Lacerta trilineata	✓	✓	✓	✓	✓		
2	Cretan Wall Lizard	Podarcis cretensis	✓	✓	✓	✓	✓	✓	
3	Ocellated Skink	Chalcides ocellatus		✓					
4	Balkan Whip Snake	Hierophis gemonensis		✓	✓			✓	
5	Balkan Terrapin	Mauremys rivulata				✓	✓		

Amphibians

1 American Bullfrog ‡ Lithobates catesbeianus		✓	\checkmark		
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Butterflies

1	Pigmy Skiper	Gegenes pumilio			✓					
2	Cretan Festoon	Zerynthia cretica		✓	✓	✓	✓	✓	✓	
3	Scarce Swallowtail	Iphiclides podalinus		✓				✓		
4	Swallowtail	Papilio machaon		✓	✓	✓	✓	✓	✓	
5	Large White	Pieris brassicae		✓	✓	✓	✓	✓	✓	
6	Small White	Pieris rapae		✓						
7	Eastern Dappled White	Euchloe ausonia		✓		✓				
8	Clouded Yellow	Colias crocea					✓	✓		
9	Cleopatra	Gonepteryx cleopatra		✓		✓	✓		✓	
10	Small Copper	Lycaena phlaeas		✓		✓		✓		
11	Holly Blue	Celastrina argiolus		✓			✓	✓	✓	
12	Common Blue	Polyommatus icarus		✓	✓	✓	✓			
13	Brown Argus	Arica agrestis						✓		
14	Large Tortoiseshell	Nymphalis polychloros			✓			✓		
15	Red Admiral	Vanessa atalanta	 ✓ 						✓	
16	Painted Lady	Vanessa cardui	✓	✓		✓	✓	✓		
17	Two-tailed Pasha	Charaxes jasius							✓	
18	Speckled Wood	Pararge aegeria aegeria	 ✓ 	✓	✓	✓	✓	✓		
19	Wall Brown	Lasiommata megera		✓	✓	✓	✓	✓		
20	Meadow Brown	Maniola jurtina		✓	✓	✓	✓	✓		

Moths (E=evidence)

1	Humming-bird Hawk-moth	Macroglossum stellatarum	✓							
2	Pine Processionary Moth	Thaumetopoea pityocampa	Е	Е	E	Е	E	Е	Е	E

Dragonflies

1	Blue Emperor	Anax imperator				✓		
2	Blue-tailed Damselfly	Ischnura elegans	✓	✓				
3	Red-veined Darter	Sympetrum fonscolombii				✓		
4	Common Darter	Sympetrum striolatum					✓	
5	Southern Skimmer	Orthetrum brunneum	✓					

Other Insects

1	Egyptian Grasshopper	Anacridium aegyptium	✓	✓	✓	✓	✓	✓	✓	
2	Nosed Grasshopper	Acrida ungarica			✓	✓			✓	
3	Italian Shield Bug	Graphosoma lineatum			✓					
4	Violet Carpenter Bee	Xylocopa violacea	✓	✓	✓	✓	✓	✓	✓	

					Α	pril			
Common name	Latin name	12	13	14	15	16	17	18	19
Eastern Hornet	Vespa orientalis		✓		✓				
Paper Wasp	Polistes gallicus	✓			✓	✓	✓		
Beefly	Bombylius major					✓	✓		
Red Palm Weevil ‡	Rhynchophorus ferrugineus			✓					
	Eastern Hornet Paper Wasp Beefly	Eastern HornetVespa orientalisPaper WaspPolistes gallicusBeeflyBombylius major	Eastern HornetVespa orientalisPaper WaspPolistes gallicusØeeflyBombylius major	Eastern HornetVespa orientalis✓Paper WaspPolistes gallicus✓BeeflyBombylius major	Eastern HornetVespa orientalis✓Paper WaspPolistes gallicus✓BeeflyBombylius major	Common nameLatin name12131415Eastern HornetVespa orientalis✓✓✓Paper WaspPolistes gallicus✓✓✓BeeflyBombylius major✓✓✓	Eastern HornetVespa orientalis✓✓Paper WaspPolistes gallicus✓✓BeeflyBombylius major✓✓	Common nameLatin name121314151617Eastern HornetVespa orientalis✓✓✓✓✓Paper WaspPolistes gallicus✓✓✓✓✓BeeflyBombylius major✓✓✓✓✓	Common nameLatin name12131415161718Eastern HornetVespa orientalis✓✓✓✓✓✓Paper WaspPolistes gallicus✓✓✓✓✓✓BeeflyBombylius major✓✓✓✓✓✓

Molluscs

1	Cretan Door Snail	Albinaria inflata		\checkmark	✓	\checkmark	 ✓ 	

Fungi

1 Latticed Stinkhorn Clathrus ruber ✓
