

John Stuart Mill's botanical collections from Greece (a private passion)

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Abstract. An account is given of John Stuart Mill's two journeys to Greece in 1855 and 1862. A list of the extensive botanical collections is included along with the itineraries of the journeys and an introduction to his interest in botany.

Key words: botany, collections, Greece, itineraries, J.S. Mill

Background

Two years ago, while working in the Herbarium at Kew, I discovered some specimens collected by J.S. Mill. I was not aware at that time that Mill was interested in botany. I decided to look further into this aspect of an eminent Victorian and found that not only was Mill a keen and enthusiastic botanist but had collected a herbarium of over 12 000 specimens. These collections consisted not only of plants from the UK but specimens from across Europe to Turkey. The specimens from Greece were particularly extensive and I decided to investigate these collections.



time to start a family. John was the firstborn of a large family.

John's childhood was an unhappy and solitary time. His education was conducted at home, entirely by his father who, concurrently, was writing his *History of British India*. At the age of twenty he became profoundly depressed and lost interest in his work and life. This lonely boyhood and his depression is movingly described in his autobiography (Mill 1875).

In 1827 John was invited for dinner at the house of John Taylor and it was there that he first met Harriet, John Taylor's wife. The meeting was to have a profound effect on the rest of his life. Mill had much in common with the Taylor family but it was Harriet's company that he found most congenial. They fell in love with each other and, two years after John Taylor's death in 1849, they married. Harriet had inherited a large fortune from her late husband making them financially secure. In 1858 they decided to travel together, initially to visit France but perhaps to go as far as Greece. Tragically Harriet soon became ill with a recurrence of tuberculosis and died that year

Introduction

John Stuart Mill was born in London on 20th May 1806. His father, James, had moved to London from Scotland to become the editor of a new periodical called the *Literary Journal* which provided him with an income. He married Harriet Barlow, bought a house in Pentonville and decided it was

in Avignon. Near the town cemetery of St. Véran, just outside Avignon where she was buried, John found and bought a small house with a view of the graveyard. After his death he was buried in Harriet's tomb.

Following Harriet's death Mill became very much closer to her daughter, Helen Taylor. Their relationship grew and over the years they travelled and worked closely together. Sadly, Mill caught *erisypelas* whilst collecting plants for his final project, *The Flora of Vaucluse*, and died in Avignon on 7 May 1873. Helen Taylor was the executor of his will.

Professional life

Throughout his life John Mill was closely associated with the Utilitarian movement. His father, James Mill, was a close friend of Jeremy Bentham, the founder of the philosophical idea of utility. Bentham's idea of utility was to provide 'the greatest happiness to the greatest number' and that an action was right or good in proportion to its usefulness or promotion of happiness. This friendship had a profound effect on John's life both professionally and privately. As John grew up this philosophy became rooted into his soul. He formed the Utilitarian Society (1823-1826) and coined the word *utilitarianism*.

In the 19th century *utilitarianism* was a politically radical idea. Bentham and Mill thought that happiness could be increased by alleviating 'the positive evils of life' such as disease and poverty and that individual freedom should be safeguarded. He proposed the principle that 'the only purpose for which power can be rightfully exercised over any member of a civilised society, against his will, is to prevent harm to others'.

Mill remained a close friend of Jeremy Bentham throughout his life and, after Bentham's death in 1832, continued to develop the basic principles of individual liberty, democracy and freedom of speech. These ideas are contained in his most famous book, *On Liberty* (1859), published in the same year as Charles Darwin's *The Origin of the Species*, and continue to be actively debated today.

John served as a Member of Parliament (1865-1868) and worked closely with Helen Taylor on the issue of women's suffrage. In 1869 he published *The Subjection of Women* and on 20 May 1867, 'during the debate on the Reform Bill, he rose to move that the

word 'man' should be replaced by the word 'person', the question of a woman's right to vote being heard for the first time in the legislative assembly of a civilized country' (Packe 1954).

Mill, George Bentham and botany

Jeremy Bentham's influence on Mill was not confined to philosophy. Brigadier General Sir Samuel Bentham, a naval architect, and Jeremy's brother, retired from the Admiralty in 1812 and acquired a château in the south of France. He had one son and three daughters. His son, George Bentham (1800-1884) 'the eminent botanist' as Mill described him in his Autobiography, first met Mill in 1811 when he was six and recorded 'On another occasion John Stuart Mill, then a boy of six years old in a scarlet jacket with nankeen trousers buttoned over it, was staying with us and spending a morning with my father and myself at Lady Spencers' (Filipiuk 1997).

In 1820 Mill spent a year in France staying with Samuel Bentham and his family, initially in their Château of Pompignan and later in the Pyrenees, travelling south to Bagnères de Bigorre, Pau, Bayonne and Bagnères de Luchon, including an ascent of the Pic du Midi de Bigorre. During this visit the fifteen-year old Mill became a friend of George Bentham who recalls 'John Mill had been with us since the first of June, and eagerly pursued his French studies with my assistance' (Filipiuk 1997).

John Mill described this period as 'another of the fortunate circumstances in my education', and it was during this visit that he was first introduced to botany by George. It was to become a lifelong passion: 'We remained a month at Bagnères de Bigorre from whence I made numerous botanical excursions – short ones with John Mill or my sister, longer ones with our manservant, ascended the Lhéris, and other celebrated botanical stations near at hand' (Filipiuk 1997).

This was the introduction to a passion that was to consume much of his free time for the rest of his life. Mill even suggested that his botanical passion had an influence on his professional life. He wrote in his autobiography that 'logic and the dialectics of Plato, which had formed so large a part of my previous training, had given me a strong relish for accurate classification. This taste had been strengthened and enlight-

ened by the study of botany' (Mill 1875). He was a devoted traveller spending many months abroad on extended trips to France, Spain, Austria, Switzerland, Italy and to Greece. On each of these trips he collected plants, named them and accumulated a large private herbarium of over 12 000 specimens.

'Mill was essentially an amateur collector. For him botany was not a science, but in the true sense, his sport' (Packer 1954). When invited on a fishing trip to Scotland by his friend and fellow philosopher, Herbert Spencer, Mill replied 'my murderous propensities are confined to the vegetable world' (Spencer 1904). Despite this apparent levity he was a very serious and committed botanist contributing regular articles to *The Phytologist*, edited by his friend and walking companion, Alexander Irvine, and over 450 cited specimens to James Brewer's *A New Flora of the neighborhood of Reigate, Surrey* (Brewer 1856) and his *Flora of Surrey* (Brewer 1863). Mill's own copies of these two books are in the library of Sommerville College, Oxford. Charles Edgar Salmon in his *Flora of Surrey* (Salmon 1931) cited a number of Mill specimens. He corresponded with eminent botanists of the time, particularly William Hooker and George Bentham. In 1830 he wrote to Hooker 'I have gathered for you some specimens of *Atriplex erecta*... it has not the characters of any other English *Atriplex*' (note 1). Hooker (1831) recorded this find in his British Flora as a first record. In 1831 he wrote again to Hooker 'You will find however specimens, such as they are, of all the plants which you expected and wished to see except one, as to which I must plead guilty of having misinformed you, the *Thalictrum majus*. How I came to commit this blunder I cannot conceive, as the plant is entered both in my Herbarium and my catalogue as *Thalictrum flavum*. In compensation I send you a plant which, I believe, I did not mention before: the *Lilium martagon*, a plant new to the British flora, but certainly wild and as far as it is possible to judge, indigenous' (note 2). In 1843, in a letter to Bentham 'I collected a few rather rare species in Italy, the *Orchis romana*, *papilionacea*, *provincialis* and a few other plants almost peculiar to the Roman Campagna – the rarest I believe being the *Vicia tricolor*. Nothing but the persuasion that you must certainly have all these has prevented me long since offering you them or any others I have. If any of those two or three I have mentioned should be of the least value to you I should feel obliged by

your saying so, as I should by anything else however trifling which you would put in my favour to do for you or yours' (note 3).

Mill was always charmingly modest and self-effacing in his correspondence with these men: always willing to contribute, share, help in any way open to the enthusiastic amateur. He was always generous with his collections, donating interesting specimens to various institutions and individuals throughout his life.

After Mill's death his entire personal herbarium was offered to the Royal Botanic Gardens, Kew. In 1874 Helen Taylor, Mill's stepdaughter and executor wrote to the Director, Joseph Hooker, that 'My late stepfather Mr John Stuart Mill had formed a considerable herbarium including several plants first found by himself, some named from him as their first finder. Such of his specimens as were found in the department of Vaucluse it was his wish to place at the disposal of Professor Fabre of Avignon; but the others he would have wished disposed of in any way that might be most useful, together or separately. I hope I am not presuming too much in asking you whether you would be willing to look over his *Catalogus Herbarii* and to select from it the names of such specimens as you would like to have either for your own private or for any public collection; or to say to what use you think the whole had best be put. If I receive your permission I will forward the catalogue to you' (note 4). In March 1875 Helen wrote to Hooker 'I shall be very glad to act upon your suggestion to present the duplicate specimens to Cambridge University [Harvard], US; and to accept your kind offer to undertake the trouble of transmitting them' (note 5). Later, in 1875, Hooker acknowledged this gift to the Board of Directors 'I have to inform the Board that the Botanical Collections of the late Mr John Stuart Mill have been presented to this establishment by his stepdaughter Miss Helen Taylor; and are of considerable extent and in excellent condition. These collections are of both scientific value and historical interest on account of the eminence of their former possessor as a philosopher and writer, and because of his well and widely known botanical tastes and acquirements. In early life Mr Mill was a diligent observer and collector of British plants, and made some important discoveries relating to the Flora of these Islands and he continued collecting and observing wherever he resided or travelled up to a very short period before his death' (note 6).

However, the collection was divided into three sets but surprisingly, in view of Helen's comments, without duplicates of the Kew set. One set of specimens was retained at Kew, a second was sent to Asa Gray at Harvard University. He subsequently sent 2000 specimens to Philadelphia (Mears 1981) which was acknowledged: 'The Academy of Natural Sciences of Philadelphia has received a collection of 2000 specimens of plants from the collection of the late John Stuart Mill principally from Europe and Asia and directs me to express its sincere thanks for this token of regard' (note 7). The third set was sent at Helen's request to Melbourne. This gift was acknowledged by F. von Mueller 'In the undeserved oppression which I have still to endure the unexpected gift of one of the three portions of Mr J. Mill's collection, has been a great moral support to me, and I consider it one of the triumphs of my life. Two of the daily journals of Melbourne have noticed in becoming terms the honour thus far conferred by your generosity and Miss Taylor's friendliness on this Colony' (note 8).

Travels to Greece

Mill made two visits to Greece. In 1855, on the first visit, he travelled alone: it was a recuperative trip to Italy, Sicily and Greece, for the recovery of health from an 'attack of the family disease' [tuberculosis], but in 1862 for the second visit he was accompanied by Helen Taylor. Mill was interested in Greece primarily because of its antiquities but he was also passionate about its botany. During these trips he made 1297 separate herbarium collections and most of these collections included a number of duplicate specimens. The specimens are all identified in Mill's handwriting. Seven of the collections were described as new species but only three of these (*Centaurea ebenoides*, *Genista millii* and *Ranunculus millii*) are currently recognized as distinct, the others having been reduced to synonymy. Several of his collections represent first records for Greece. While in Athens in 1862 he met Theodor von Heldreich, then Director of the Botanical Garden and Conservator of the Natural History Museum of Athens. They discussed plant identifications and shared collections, and indeed there is a substantial set of Heldreich's specimens in Mill's herbarium. Their meeting is documented in



Fig. 1. *Genista millii*. Photo: Arne Strid

John Stuart Mill's botanical notebooks lodged in the Archives of the London School of Economics. This set of five note-books contain handwritten notes of all his Greek and Turkish collections but only some of the others. They are a fascinating record of the hardworking, painstaking, systematic approach of a typical Victorian Naturalist.

It is possible to trace the exact route taken by Mill during each visit. In 1855 he wrote daily and extensively to Harriet, giving details of where he was each day (Mineka & Lindley 1972). These letters are full of fascinating information about mid 19th century travel in Greece but tell us virtually nothing about the flora. His enthusiasm for the country, however, was clear from his letters. On April 21st, following a trip up Pentelicus, he wrote 'The approach to the mountain is at this season a green waste, grassy, bush and flowery...I never saw any combination of scenery so perfectly beautiful & so magnificent – and the sunset & evening lights on the innumerable mountains in front of us returning were exquisite' (Mineka & Lindley 1972).

The exact route of his travels can also be pieced together from the details on the herbarium specimens. The visit of 1862 is much less well documented, because Harriet was dead and Helen Taylor was travelling with him, but the vouchers and botanical notebooks again inform us about his route. He travelled in Corfu, throughout Attica, up to Euboea, through Boeotia, Fthiotis and Phokis (to visit Delphi and Parnassos), Aetolia-Akarnania [SW part of the mainland], crossing over the Gulf of Corinth to the Peloponnese where he visited every region.

Travelling in Greece in the 19th Century was not easy or comfortable and full of dramatic contrasts. At Thermopylae they were required to 'have a guard of six regular soldiers or mounted gendarmes' to accompany them through 'the dangerous part of the journey' (Mineka & Lindley 1972). They were troubled by fleas and mosquitoes: 'I could not sleep for one instant, for fleas and mosquitos, the fleas being by far the worst. The wretches hopped on the bed and on my face from all sides' (Mineka & Lindley 1972). But there was great beauty also with 'mountains covered with magnificent plane trees which we were never tired of looking at' (Mineka & Lindley 1972) and walking 'on a kind of chamomile which raised a very pleasant lemon-like smell' (Mineka & Lindley 1972).

In 1862 Mill wrote to George Grote that his journey 'had been a complete success: the tent travelling has answered perfectly, and we have gone everywhere and seen everything, without being in any way disturbed by the Nauplia insurrection, nor experienced any of the dire consequences in the form of renewed brigandage... We made two expeditions of six weeks each, in which we have seen Greece more thoroughly than it has been seen' (Mineka & Lindley 1972). Helen wrote to Fanny Stirling 'We travelled with tents, an unusual thing in Greece, indeed, I believe we are the first of doing so... We were alone having no one with us but our own servants, the Greek guide and the men necessary to look after the horses and mules... We generally preferred solitary places, sometimes we were in green mountain valleys by the side of sparkling streams where the nightingales sang the whole night, sometimes in forests where our men light huge fires, throwing on the trunks of two or three whole trees, to keep off the wolves from the horses... but whether we were in the ruins of an ancient city, by the wild sea-shore, on mountain sides or green corn-covered plains it was always beautiful' (note 9). This ex-



Fig. 2. *Ranunculus millii*. Photo: Arne Strid

tra freedom gave Mill more time to botanise and he collected over three times as many plants during this trip. His guide, Alexandros Anemogaunes during this trip reported that when he traveled with him in the Peloponnese, 'besides drying flowers, had an extra baggage mule in his train for carrying plants and roots' (Tozer 1890).

In 1855 Mill returned directly to Europe from the Eastern Peloponnese but in 1862 he travelled on to Turkey where he collected in Thrace, Mount Olympos and Anatolia before returning home.

The final years

Mill spent the final years of his life in Avignon where he met and befriended the famous entomologist J.H. Fabre. They agreed to work together on the Flora of Vaucluse. 'They were well equipped for the undertaking, Mill methodically gathered one of each species of plant and carefully catalogued it; while Fabre, who was always attracted by the tiny and bizarre,

dealt with the exotic race of mushrooms' (Packer 1954). Following Mill's death Fabre intended to complete the work himself but was unable to get funding. He did however produce 'a hefty treatise on the little mushrooms!' (Packer 1954). These collections are still in the Fabre Museum in Vaucluse, uncatalogued and unseen.

New Species

- Achillea millii* Heldr. & Boiss., Fl. Orient. Suppl.: 296 (1888), *nom. nud.* Type: [Greece], pass from Megaspelion, into the valley of the Styx, *J.S. Mill* s.n. (holo. G-BOISS! iso. K!).
Now reduced to synonymy under *Achillea umbellata* Sm. in Sibth. & Sm.
- Centaurea ebenoides* Heldr. ex S. Moore in J. Bot. 16: 133 (1878). Type: [Greece], in forests, Northern Euboea, *J.S. Mill* s.n. (holo. K!).
[A characteristic species endemic to northern Euboea (Evia) and restricted to serpentine substrate].
- Genista millii* Boiss. ex Heldr., Fl. Orient. (Suppl.): 160 (1888). Type: [Greece], in subalpinis montis Delphi Euboeae, *T. Pichler* s.n. (holo. G-BOISS! iso.K!). **Fig. 1.**
[The type of this species was collected by Pichler in May 1876, and there appears to be no direct connection to Mill. It was long believed to be extinct but was rediscovered by Strid on May 22, 1985, at or very near the locus classicus (no. 24625; C, G). It belongs to a taxonomically difficult group currently under revision for Flora Hellenica. Some collections from Mt Iti and Oxia in Sterea Ellas are probably conspecific].
- Ptarmica millii* Nym. ex Heldr., Consp. Fl. Eur. Suppl. 2(1): 166 (1889), *nom. nud.* Type: [Greece], Achaia, Mount Chelmos, June 1862, *J.S. Mill* s.n. (holo. K!).
Now reduced to synonymy under *Achillea umbellata* Sm. in Sibth. & Sm.
- Ranunculus millii* Boiss. & Heldr. ex Boiss., Fl. Orient. 1: 35 (1867). Type: [Greece], in Laconiá, Levetsova, in the valley of the Evrontas, between Sparta and Gythion, *J.S. Mill* s.n. (holo. G-BOISS! iso. K!). **Fig. 2.**
[This is a distinct species endemic to S Peloponnisos where it is locally common (cf. Flora Hellenica 2: 54, 2003).]
- Sedum millii* Baker in J. Bot. 13: 236 (1875). Type: [Turkey], Anatolia, Brusa & Gimlek, July 1862, *J.S. Mill* s.n. (holo. K!).
Now reduced to synonymy under *Sedum obtusifolium* C.A. Mey.
- Verbascum samniticum* Ten. var. *millii* Heldr. ex Murb. in Acta Univ. Lund n.s. 32(1): Nachtr. Verbascum 35 (1936) *in obs. pro syn.* Type: [Greece], Lakedaemon, between Dramisi et Menelaos, *J.S. Mill* s.n. (syn. B† isosyn. K); between Gythion and Levetsova, *J.S. Mill* s.n. (syn. K); ad viam inter Sparta & Marathonisi, *Sartori* s.n. (syn. B†).

Greek Collections

Mill did not give a number to any of his collections. It is therefore taken for granted that all the specimens are *sine numero* without adding this detail to each specimen.

Pinophyta

Pinaceae

Abies cephalonica Loudon: Taygetos, April 1862 (K).

Cupressaceae

Juniperus phoenicea L. subsp. *phoenicea*: between Eleusis & Megara, March 1862 (K).

Magnoliophyta

Dicotyledones

Fagaceae

Quercus coccifera L.: Kephissia, April 1862 (K).

Betulaceae [Corylaceae]

Ostrya carpinifolia Scop.: mountains of Euboea, 1855 (CGE).

Santalaceae

Osyris alba L.: Corfu, April 1855 (CGE).

Urticaceae

Parietaria cretica L.: promontory of Munychia, March 1862 (K).

Aristolochiaceae

Aristolochia rotunda L.: Northern Euboea, May 1862 (K).

Chenopodiaceae

Suaeda vera J.F. Gmel.: Kalamaki, Isthmus of Corinth, May 1855 (CGE).

Aizoaceae

Mesembryanthemum nodiflorum L.: bay of Phalerum, June 1862 (K).

Caryophyllaceae

Cerastium candidissimum Correns: Parnassos, May 1862 (K); *C. pedunculare* Bory & Chaub.: mountains of lake Stymphalus, May 1855 (K); descent from Vurlia, March 1862 (K); Messinia, Rhizomylos, April 1862 (K).

Dianthus pinifolius Sm. var. *lilacinus* (Boiss. & Heldr.) Wettst.: plateau of Livadi [Arakhova], Parnassos, May 1862 (K); *D. pubescens* Sm.: between Thorikos & Keratia, May 1862 (K); *D. viscidus* Bory & Chaub.: mountains of Bura, May 1862 (K); between Labadea & the Triodos [Schiste], May 1862 (K).

Minuartia attica (Boiss. & Spruner) Vierh.: between Thorikos & Sunion, April 1862 (K); *M. verna* (L.) Hiern.: Parnassos, lower parts, May 1855 (K).

Moenchia mantica (L.) Bartl.: pass of Topolia, overlooking the valley of Salona, May 1855 (K); between Menclaos and Epidavros Limerá, March 1862 (K).

Petrohragia dubia (Raf.) G. Lopéz & Romo [*P. velutina* (Guss.) P.W. Ball & Heywood]: amphitheatre of Corinth, March 1862 (K); *P. glumacea* (Chaub. & Bory) P.W. Ball & Heywood: plain of Argos, April 1855 (K); Pylos, Old Navarino, April 1862 (K); Antirhion, May 1862 (K); *P. illyrica* (Ard.) P.W. Ball & Heywood: between Galaxidi and Xylogaidara, May 1862 (K); *P. phthiotica* (Boiss. & Heldr.) P.W. Ball: Kyllene, at the head of the gorge of Phalambouritza, June 1862 (K); *P. saxifraga* (L.) Link: between Rhion and Psathropyrgos, May 1862 (K).

Saponaria calabrica Guss.: Corfu, Paleocastrizza, February 1862 (K); Megaspelion, May 1862 (K).

Silene atropurpurea (Griseb.) Greuter & Burdet: hills of Bagna at the foot of Parnassos, May 1862 (K); *S. caesia* Sm.: Chelmos, near

the falls of the Styx, May 1862 (K); Parnassos, ascent to Gournas, May 1862 (K); *S. cretica* L.: Corfu, road to Pelleka, April 1855 (K); Corfu, April 1855 (CGE); hill of Monemvasia, March 1862 (K); *S. graeca* Boiss. & Spruner: on the Polyandrum at Thermophylae, May 1855 (K); *S. integripetala* Bory & Chaub.: mountains of Laconia, May 1855 (K); descent from Vurlia into the plain of Lacedaemon, March 1862 (K); *S. longipetala*: ruins of Epidavros Limera, March 1862 (K); *S. pentelica* Boiss.: upper part of Pentelicus, April 1855 (K).

Velesia rigida L.: mountain of Bura, May 1862 (K).

Illecebraceae

Scleranthus perennis L. subsp. *dichotomus* (Schur) Nyman: pass from Mount Oeta, from Molos to Elateria [Elatea], May 1862 (K).

Ranunculaceae

Adonis aestivalis L.: Keratia (Attica), May 1862 (MEL); *A. cyl-lenea* Boiss., Heldr. & Orph.: Kyllene, at the head of gorge of Phalambouritza, June 1862 (K); *A. flammea* Jacq.: Chassia, at the foot of the pass of Phyle, over Mount Parnes, 1855 (CGE); Parnassos, ascent to Gournas, May 1862 (K); *A. microcarpa* DC.: between Dramisi & Menclaos, March 1862 (K).

Anemone blanda Schott & Kotschy: Corfu, road to Paleocastritza, February 1862 (K); *A. pavonina* Lam.: descent from Vurlia, into the valley of the Evrontas, March 1862 (K).

Consolida ajacis (L.) Schur: the mountains of Xylogaidara, May 1862 (K); valley from near Molos, up to Mt Oeta, May 1862 (K); *C. orientalis* (J. Gay) Schrödinger subsp. *orientalis*: between Chaeronea and Arcadian Orchomenos, May 1862 (K).

Delphinium peregrinum L.: ascent of the Kerata [Mt Eleusis] range from the valley of Megara, June 1862 (K); Bay of Phalerum, June 1862 (K); *D. staphisagria* L.: village of Mavromati, within the walls of Messini, May 1855 (K).

Nigella damascena L.: Argos to Corinth, April 1862 (NA).

Ranunculus brevifolius Ten. subsp. *pindicus* (Hauskn.) E. Mayer: Parnassos, Mana to Kakaria, May 1862 (K); *R. chiis* DC.: pass from Parthenium, from Tzipiana towards Argos, April 1862 (K); between Sparta & Kastania, April 1862 (K); *R. gracilis* E.D. Clarke: foot of the mountain of Ag. Elias near Sparta, March 1862 (K); *R. isthmicus* Boiss.: Isthmus of Corinth, near Kalamaki, March 1862 (K); *R. marginatus* d'Urv.: Corfu, near the town, April 1855 (K); Ditchis, near Sparta, March 1862 (K); *R. millefoliatus* Vahl: Parnassos, between Mana & Karkaria, May 1862 (K); *R. millii* Boiss. & Heldr.: Levetzova, in the valley of the Evrontas, between Sparta and Gythion, April 1862 (G-BOISS, K); foot of mountains of Ag. Elias, near Sparta, March 1862 (K); *R. muricatus* L.: Laconia, March 1862 (K); between Marathon and Rhamnous, May 1862 (K); *R. neapolitanus* Ten.: Kephissia, April 1862 (K); *R. sprunerianus* Boiss.: pass between Parthenicum from Tzipiana towards Argos, April 1862 (K); Dekeleia, Tatoo, April 1862 (K).

Paeoniaceae

Paeonia parnassica Tzanoud.: Parnassos, Karkaria, May 1862 (K).

Berberidaceae

Leontice leontopetalum L.: cultivated fields near Athens, March 1862; valley of Sparta, April 1862 (K).

Lauraceae

Laurus nobilis L.: Taygetos, between Ladon and Karvalia, April 1862 (K).

Papaveraceae

Hypecoum imberbe Sm.: about Athens, April 1855 (PH); bay of Phalerum, March 1862 (NA, PH); Argos, March 1862 (NA, PH).

Papaver rhoeas L.: between Dramisi and Menclaos, March 1862 (K).

Roemeria hybrida (L.) DC: Chassia, at the foot of the pass of Phyle, 1855 (CGE).

Fumariaceae

Corydalis blanda Schott subsp. *parnassica* (Orph. & Heldr. ex Boiss.) Lidén: Parnassos, May 1862 (K); *C. solida* (L.) Clairv. subsp. *incisa* Lidén: Parnassos, Karkaria, May 1862 (K).

Fumaria macrocarpa Parl.: between Athens & Phalerum, in corn-fields, March 1862 (K); *F. petteri* Rchb. subsp. *thuretii* (Boiss.) Pugsley: between Marcopoulo & Marathon, May 1862 (K); descent from Mt Oeta upon Elateria [Elatea], May 1862 (K).

Cruciferae [Brassicaceae]

Aethionema saxatile (L.) R. Br. subsp. *saxatile*: upper part of Pentelicus, April 1855 (K); pass of Dervenaki, between Cleonae & Argos, March 1862 (K); pass across Parthenium from Tzipiana to Argos, April 1862 (K); *A. saxatile* subsp. *oreophilum* I.A. Anderson, Carlström, Franzén, Karlén & H. Nybom: Khelmos, June 1862 (K); Taygetos, April 1862 (K).

Alyssum montanum L. subsp. *montanum*: mountains of northern Euboea, May 1862 (K); *A. murale* Waldst. & Kit. subsp. *murale*: Euboea, north of the plain of Chalkis [Euripos], May 1862 (K).

Arabis collina Ten.: descent from Taygetos to Kalamata, April 1862 (K); *A. verna* (L.) R. Br.: between Cleone & Nemea, March 1862 (MEL); descent from Vurlia into the valley of Sparta, March 1862 (MEL); Plain of Sparta, March 1862 (PH).

Aubrieta deltoidea (L.) DC.: close to the ruins of Phyle, April 1855 (K); summit of Pentelicus, April 1855 (K); Hymettus, March 1862 (K); between Tegea & Kyra Vrysis, March 1862 (K); Mt Elias, near Sparta, April 1862 (K); descent from Kyllene, below Trikkala, June 1862 (K).

Aurinia saxatilis (L.) Desv. subsp. *orientalis* (Ard.) T.R. Dudley: Corfu, Pass to Palaiokastritsa, April 1855 (K); Corfu, Pantaleone, April 1855 (CGE); Palamedii, the rocky citadel of Nauplia, April 1855 (K); foot of Mt Ithomi, at the village of Mavromati, April 1862 (K).

Berteroa obliqua (Sm.) DC.: Megaspelion, May 1862 (K); mountains of Bura, May 1862 (K).

Biscutella apula L.: Corfu, 1855 (CGE); Colonos, March 1862 (PH); promontory of Munychia, March 1862 (MEL).

Brassica gemiculata (Desf.) Snogerup & B. Snogerup [*Hirschfeldia incana* (L.) Lagr.-Foss.]: Navarino, April 1862 (K); *B. tournefortii* Gouan: bay of Phalerum, March 1862 (K).

Calepina irregularis (Asso) Thell.: Khan of Francovrysis, April 1862 (K).

Carrichtera annua (L.) DC.: promontory of Munychia, March 1862 (K).

Clypeola jonthlasi L.: Parnassos, near the Corycian cave; May 1855 (K); pass of Dekeleia, May 1855 (K); promontory of Munychia, March 1862 (K); descent from Vurlia into the valley of the Evrontas, March 1862 (K).

Draba lasiocarpa Rochel: near the summit of Pentelicus, March 1862 (K); *D. parnassica* Boiss. & Heldr.: highest cone of Parnassos, May 1862 (K); Parnassos, Mana to Karkaria, May 1862 (K).

Eruca vesicaria (L.) Cav. subsp. *sativa* (Mill.) Thell.: Colonos, March 1862 (K).

Erucaria hispanica (L.) Druce: Athens, February 1862 (K); Skirionian road [Kake Skala], April 1862 (K).

Erysimum cuspidatum (M. Bieb.) DC.: pass from Megaspelion to the valley of the Styx, May 1862 (K); *E. graecum* Boiss. & Heldr.: Colonos, March 1862 (K); *E. pusillum* Bory & Chaub. subsp. *parnasii* (Boiss. & Heldr.) Hayek: hill of Dekeleia, April 1862 (K); Parnassos, Mana to Karkaria, May 1862 (K).

Fibigia clypeata (L.) Medik.: hills of Bagna at the foot of Parnassos, 1862 (K).

Hesperis secundiflora Boiss. & Spruner: ascent to Phyle, April 1855 (K).

Hornungia petraea (L.) Rchb.: between Kyra Vrysis and Vurlia, March 1862 (K).

- Hymenolobus procumbens* (L.) Hayek: bay of Phalerum, March 1862 (K).
- Iberis pruitii* Tineo: upper part of Pentelicus, April 1855 (K); *I. semipervirens* L.: Parnassos, Mana to Karkaria, May 1862 (K).
- Kernera saxatilis* (L.) Rchb. [*Cochlearia saxatilis* L.]: mountains of Euboea, 1855 (CGE).
- Lepidium hirtum* (L.) Sm. subsp. *nebrodense* (Raf.) Thell.: pass from Megalopolis into eastern Arcadia, April 1862 (K); Parnassos, May 1862 (K); *L. spinosum* Ard.: between Gythion & Levetzova, April 1862 (K).
- Lunaria annua* L.: Corfu, road to Gaiuna, April 1855 (K).
- Malcolmia bicolor* Boiss. & Heldr.: pass from Megaspelion, into the valley of the Styx, May 1862 (K); *M. flexuosa* (Sm.) Sm.: coast of Phthiotis on the beach of the Maliac gulf, May 1855 (K); *M. maritima* (L.) R. Br.: Corfu, pass of Pantaleone, April 1855 (K); Mt Elias, near Sparta, March 1862 (K).
- Matthiola fruticulosa* (L.) Maire: between Argos and Corinth, April 1855 (K); promontory of Munychia, March 1862 (K); *M. longipetala* (Vent.) DC. subsp. *bicornis* (Sm.) P.W. Ball: between Athens & Phalerum, March 1862 (K); Skironian road [Kake Skala], March 1862 (K); *M. tricuspidata* (L.) R. Br.: beach near Oropos, March 1862 (K).
- Rapistrum hispanicum* (L.) Crantz: olive wood of the Academy, Athens, April 1855 (K).
- Sinapis alba* subsp. *dissecta* (Lag.) Bonnier: Corfu, Pelleka, 1855 (CGE).
- Sisymbrium orientale* L.: about Athens, April 1855 (K); between Dramisi & Menclaos, March 1862 (K); *S. polyceratium* L.: Labadea [Livadia], May 1855 (K).
- Teesdalia coronopifolia* (J.P. Bergeret) Thell.: descent from Vurlia into the valley of Lacedaemon, March 1862 (K).
- Thlaspi graecum* Jord.: Taygetos, between Kastania & Kalamata, April 1862 (K); *T. rivale* J. Presl & C. Presl: Parnassos, Mana to Karkaria, May 1862 (K).
- Resedaceae**
- Reseda alba* L.: Colonos, March 1862 (K); *R. lutea* L.: plain of Argos, March 1862 (K).
- Crassulaceae**
- Sedum cepaea* L.: descent from Trikkala, the ancient Pallene, June 1862 (K); *S. hispanicum* L.: rocks at Delphi, May 1855 (K); Delphi, May 1862 (K); *S. tenuifolium* (Sm.) Strobl: pass over Mt Oeta, from Molos to Elateria [Elatea], May 1862 (K).
- Umbilicus chloranthus* Heldr. & Sart. ex Boiss.: in the walls of the Gate of Lions, Mycene, April 1855 (K); Pylos (Old Navarino), April 1862 (K); Acrocorinth, April 1862 (K).
- Saxifragaceae**
- Saxifraga adscendens* L. subsp. *parnassica* (Boiss. & Heldr.) Hayek: Parnassos, between Mana & Karkaria, May 1862 (K); *S. chryso-splenifolia* Boiss.: entrance to the pass of Taygetos, at Mistra, March 1862 (K); Kyllene, at the head of the gorge of Phalambouritza, June 1862 (K); *S. graeca* Boiss.: pass from Gravia to Topolia & the valley of Salona, May 1855 (K); between Kyra Vrysis & Vurlia, March 1862 (K); *S. hederacea*: plain of Sparta, under hedges, March 1862 (K); *S. rotundifolia* L.: Kyllene, at the head of the gorge of Phalambouritza, June 1862 (K); *S. scardica* Griseb.: ridge of Khelmos, overlooking the southern passes, June 1862 (K); *S. sempervivum* K. Koch: highest cone of Parnassos, May 1862 (K); *S. sibthorpii* Boiss.: hollow of Mana, Parnassos, May 1862 (K).
- Platanaceae**
- Platanus orientalis* L.: [Evia] valley of Achmetaga, May 1855 (K); Ag. Elias, near Navarino, April 1862 (K).

Rosaceae

- Aremonia agrimonoides* (L.) DC.: mountains of lake Stymphalus, May 1855 (K); pass from Megaspelion to the valley of the Styx, May 1862 (K); Khelmos, June 1862 (K); Gorge of Phalambouritza, Kyllene, June 1862 (K).
- Crataegus heldreichii* Boiss.: Mills of Bagna, at the foot of Parnassos, May 1862 (K); between Labadeia & Triodos, May 1862 (K).
- Potentilla micrantha* Ramond ex DC.: Taygetos, pass from Kastania to Kalamata, April 1862 (K); *P. pedata* Nestl.: Khelmos, near the falls of the Styx, May 1862 (K).
- Prunus dulcis* (Mill.) D.A. Webb: between Corinth & Cleonae, March 1862 (K); between Athens & Phalerum, March 1862 (K); *P. prostrata* Labill.: Parnassos, Mana to Kakaria, May 1862 (K).
- Sarcopoterium spinosum* L.: Lycabettos, March 1862 (K).
- Sorbus domestica* L.: plain of Megalopolis, at the foot of the pass leading to Tripolitza, April 1862 (K).

Leguminosae [Fabaceae]

- Anthyllis hermanniae* L.: Skironian road [Kake Skala], April 1862 (K).
- Astragalus angustifolius* Lam.: Parnassos, May 1855 (K); plateau of Livadi, Parnassos, May 1862 (K); pass from Megaspelion to the valley of the Styx, May 1862 (K); *A. drupaceus* Orph. ex Boiss.: between Dramisi & Menclaos, March 1862 (K); *A. haarbachi* Spruner ex Boiss.: between Marcoupolos & Marathon, May 1862 (K); *A. hamosus* L.: Gravia, in the valley of Elateria, May 1855 (CGE); between Sparta & Leonardi, May 1855 (CGE, K); between Menclaos & Epidavros Limeria, March 1862 (K); *A. monspessulanus* L.: near Navarino, April 1862 (K); Euboea, in the mountains, May 1862 (K); *A. spruneri* Boiss.: Corfu, road to Garuna, April 1855 (K); Lycabettos, March 1862 (K).
- Bituminaria bituminosa* (L.) C.H. Stirt.: near Navarino, April 1862 (K); between Argos & Corinth, April 1862 (K).
- Calycotome villosa* (Poir.) Link: mountains of Euboea, May 1862 (K).
- Ceratonia siliqua* L.: Megara to the Isthmus, May 1855 (CGE); Skironian road [Kake Skala], April 1862 (K).
- Cercis siliquastrum* L.: between Gythion to Levetzova, 1862 (K).
- Cicer graecum* Orph. ex Boiss.: mountains of Bura, May 1862 (K).
- Colutea arborescens* L.: mountains of Euboea, May 1855 (CGE).
- Coronilla cretica* L.: between Menclaos & Epidavros Limeria, March 1862 (K); *C. securidaca* L.: Corfu, Paleocastritza, April 1855 (K); valley of Salona, near Amphissa, May 1855 (K); near the Academy, Athens, April 1855 (K); descent from Andritsaena into the valley of the Alpheus, May 1855 (K); Kephissia, April 1862 (K).
- Cytisus spinescens* C. Presl: mountains of Bizanion, March 1862 (K).
- Dorycnium graecum* (L.) Ser.: Corfu, road to Paleocastritza, April 1855 (K); mountains of Euboea, May 1862 (K); *D. hirsutum*: lower part of Pentelicus, April 1855 (K); *D. pentaphyllum* Scop. subsp. *germanicum* (Gremli) Gams: mountains of Euboea, May 1862 (K).
- Ebenus sibthorpii* DC.: Kephissia, April 1862 (K); Platoea, June 1862 (K).
- Erophaca baetica* (L.) Boiss. subsp. *orientalis* (Chater & Meikle) Podl.: descent from Andritzena, to the valley of Salona, May 1855 (K); between Navarino & the forest of Messinia, April 1862 (K).
- Genista acanthoclada* DC.: descent from Oeta to Elateria, May 1862 (K); Kyllene, below Trikkala, June 1862 (K).
- Glycyrrhiza glabra* L.: between Thermophylae & Molos, May 1862 (K).
- Hedysarum spinosissimum* L.: Kephissia, April 1862 (K); between Maropoulos & Marathon, May 1862 (K).
- Hippocrepis emerus* (L.) P. Lassen [*Coronilla emerus* L.]: Mistras, March 1862 (K); forests of Euboea, May 1862 (K); mountains near the lakes of the Styx, May 1862 (K).
- Hymenocarpus circinnatus* (L.) Savi: Lycabettos, March 1862 (K).

Lathyrus aphaca L.: between Athens & Phalerum, March 1862 (K); plain of Argos, March 1862 (K); *L. digitatus* (M. Bieb.) Fiori: upper part of Pentelicus, April 1855 (K); Taygetos, April 1862 (K); near Navarino, April 1862 (K); *L. grandiflora* Sm.: pass from Megaspelion, into the valley of the Styx, May 1862 (K); *L. laxiflorus* (Desf.) Kuntze: mountains of Euboea, May 1855 (K); lake Stymphalus, May 1855 (K); Forrest of Messinia, April 1862 (K); *L. sativus* L.: between Argos and Corinth, April 1855 (K); Plain of Argos, March 1862 (K); *L. setifolius* L.: Corfu, road to Garuna, April 1855 (K).

Lens nigricans (M. Bieb.) Godr.: Tatoi, Dekeleia, April 1862 (K); *L. orientalis* (Boiss.) Popov: Parnassos, May 1855 (K).

Lotus ornithopodioides L.: Navarino, April 1862 (K).

Lupinus albus L. subsp. *graecus* (Boiss. & Spruner) Franco & P. Silva: between Xerocampo & Ag. Ioannes, April 1862 (K); *L. angustifolius* L.: descent from Vurlia, into the valley of Lacedaemon, March 1862 (K); *L. luteus* L.: between Mt Elias, near Navarino & Ithome, April 1862 (K).

Medicago orbicularis (L.) Bartal.: Athens, near the Temple of Ilyssus, April 1855 (CGE); *M. rigidula* (L.) All.: Keffissia, April 1862 (K); *M. scutellata* (L.) Mill.: Corinth, April 1862 (K).

Onobrychis aequidentata (Sm.) d'Urv.: descent to Delphi, from the valley of Salona, May 1855 (K); near Navarino, April 1862 (K); *O. caput-galli* (L.) Lam.: between Sparta & Leondari, May 1855 (K); Isthmus of Corinth, April 1862 (K); between Marcopoulo & Marathon, May 1862 (K); *O. ebenoides* Boiss. & Spruner: rocky wastes at the foot of Pentelicus, April 1855 (K); Kephissia, April 1862 (K); *O. lasiostachya* Boiss.: descent from Mt Oeta, upon Elateria [Elatea], May 1862 (K).

Ononis pubescens L.: Eleusis, on rocks above the straits of Salamis, May 1855 (CGE); mountains of Xylogaidara, on the Corinthian gulf, May 1862 (K); *O. pusilla* L.: Pentelicus, April 1855 (K); between Mount Elias and Ithome, April 1862 (K); Kephissia, April 1862 (K); *O. viscosa* L. subsp. *brevifolia* (DC.) Nyman: descent from Andritzena into the valley of the Alpheius, May 1855 (K); Kephissia, April 1862 (K); *O. viscosa* subsp. *sieberi* (Besser ex DC.) Širj.: mountains behind Sicyon, May 1855 (K).

Ornithopus compressus L.: descent from Vurlia, into the valley of Lacedaemon, March 1862 (K).

Podocytisus caramanicus Boiss. & Heldr.: Megaspelion, near the Convent, May 1862 (K).

Scorpiurus muricatus L.: heights on the north side of the Alpheius, May 1855 (K); plain of Naupactos, May 1862 (K).

Trifolium arvense L.: plain of Naupactos, May 1862 (K); *T. aurantiacum* Boiss. & Spruner: valley of lake Stymphalos, May 1855 (CGE, K); Rhizomylos, between Nisi & Navarino, April 1862 (K); *T. cherleri* L.: Keffissia, April 1862 (K); between Rhamnoss & Grammaticos, May 1862 (K); *T. intermedium* Guss.: Kalamaki, Isthmus of Corinth, April 1855 (K); Athens, near the Stadium, April 1855 (K); *T. physodes* Steven ex M. Bieb.: Corfu, road to Garuna, April 1855 (K); between Levetzova & Xerocampo, April 1862 (K); *T. pignanii* Fauché & Chaub.: Khelmos, near the falls of the Styx, May 1862 (K); hills of Pagua, at the foot of Parnassos, May 1862 (K); *T. purpureum* Loisel.: ledge above Pyrgos, May 1855 (K); *T. speciosum* Willd.: mountains of Decalea, Attica, May 1855 (CGE); *T. tenuifolium* Ten.: between Sparta & Leondari, May 1855 (K); *T. tomentosum* L.: Navarino, April 1862 (K); Rhizomylos, between Nisi & Navarino, April 1862 (K); *T. uniflorum* L.: upper part of Pentelicus, April 1855 (K); Bay of Phalerum, March 1862 (K).

Trigonella coerulescens (M. Bieb.) Halácsy: near Athens, May 1855 (K); plateau of Livadi [Arakhova], Parnassos, May 1862 (K); *T. corniculata* (L.) L.: Corfu, April 1855 (CGE, K); mountains of Laconia, May 1855 (CGE); *T. graeca* (Boiss. & Spruner) Boiss.: ascent to Delphi, from the valley of Salona, May 1855 (K); hill of Monemvasia, March 1862 (K); *T. monspeliaca* L.: Mt Lycabettos, near Athens, April 1855 (CGE); *T. sprunerana* Boiss.: Parnassos, May 1855 (K).

Vicia benghalensis L.: between Menclaos & Epidavros Limeria, March 1862 (K); *V. ervilia* (L.) Willd.: Acrocorinth, May 1855 (K); *V. hybrida* L.: plain of Argos, March 1862 (K); *V. panonica* Crantz: valley of Orchemenus in northern Arcadia, among corn, May 1855 (K); *V. pinetorum* Boiss. & Spruner: pine forests of Euboea, May 1862 (K); *V. sibthorpii* Boiss.: plain of Argos, April 1862 (K); *V. tenuissima* (M. Bieb.) Schinz & Thell.: Kephissia, Attica, April 1862 (K); *V. villosa* Roth subsp. *villosa*: cornfields near Leonardi, very common all over Greece, May 1855 (K); *V. villosa* Roth subsp. *microphylla* (d'Urv.) P.W. Ball: Lycabettos, March 1862 (K).

Geraniaceae

Erodium chrysanthum L'Hér. ex DC.: Parnassos, between Delphi and the plateau, May 1855 (K); descent from the plateau of Livadi [Arakhova], upon Delphi, May 1862 (K).

Geranium asphodeloides Burm. f.: mountains of Bassae, near Phigalia, May 1855 (K); forest between Rizomylos and Navarino, April 1862 (K); *G. macrostylum* Boiss.: pass from Megaspelion, into the valley of the Styx, May 1862 (K); *G. molle* L.: Corfu, February 1862 (K); forest between Rizomylos and Navarino, April 1862 (K); Xerocampo, April 1862 (K); *G. tuberosum* L.: Tatoi, Dekeleia, April 1862 (K).

Zygophyllaceae

Peganum harmala L.: Chalkis, near the Euripos, May 1855 (K); Acropolis of Athens, April 1862 (K). [Now a rare species in Greece but recently confirmed still to occur on the Acropolis of Athens].

Linaceae

Linum aroanium Boiss. & Orph.: valley of lake Stymphalus, near Lefke, May 1855 (K); mountains near the falls of the Styx, May 1862 (K); *L. leucanthum* Boiss. & Spruner: between Marcopoulo & Marathon, near the coast, May 1862 (K); *L. nodiflorum* L.: mountains of Euboea, May 1855 (K); Thespioe, May 1855 (K); Elateria, May 1855 (K); Plain of Achladia, May 1862 (K); *L. pubescens* Banks & Sol. between Argos & Nemea, April 1855 (K); *L. strictum* L.: Lycabettos, April 1855 (K); plain of Argos, April 1855 (K); Kephissia, April 1862 (K); *L. tenuifolium* L.: valley of lake Stymphalus, near Lefke, May 1855 (K); *L. trygnum* L.: lower slope of Kithaeron [Elatias] at the pass of Dryos Kephala, May 1855 (K).

Euphorbiaceae

Andrachne telephioides L.: Kephissia, April 1862 (K).

Euphorbia amygdaloides L.: Corfu, road to Pelleka, April 1855 (K); *E. deflexa* Sm.: Parnassos, May 1862 (K); *E. myrsinites* L.: Hymettus, March 1862 (K); Parnassos, May 1862 (K); *E. pubescens* Vahl: bay of Phalerum, March 1862 (K); *E. rigida* M. Bieb.: rocky bolder of the plain of Tripolitza, March 1862 (K); Mt Elias, mountains of Sparta, March 1862 (K); *E. taurinensis* All. [*E. graeca* Boiss. & Spruner]: Kephissia, April 1862 (K).

Rutaceae

Haplophyllum coronatum Spach: descent of Mount Oeta from Budonitza [Mendenitsa] upon Gravia, May 1855 (K).

Polygalaceae

Polygala nicaeensis Risso ex W.D.J. Koch subsp. *tomentella* (Boiss.) Chodat: Tatoi, Attica, April 1862 (K); mountains in northern Euboea, May 1862 (K).

Aceraceae

Acer reginae-amaliae Orph. ex Boiss.: Khelmos, near the falls of the Styx, May 1862 (K); *A. sempervirens* L.: valley of Alpheus, May 1855 (K); between Sparta and Monemvasia, March 1862 (K).

Rhamnaceae

Rhamnus lycioides L. subsp. *graeca* (Boiss. & Reut.) Tutin: rocks of Pylos, Old Navarino, April 1862 (K).

Vitaceae

Vitis vinifera L.: Thermophylae, May 1855 (K); ascent towards Bura, from the plain of Aegium, May 1862 (K).

Malvaceae

Alcea pallida (Willd.) Waldst. & Kit. subsp. *cretica* (Weinm.) D.A. Webb: plain of Aegium, May 1862 (K); ascent towards Bura, from the plain of Aegium, May 1862 (K).

Lavatera bryoniifolia Mill. [*L. unguiculata* Desf.]: between Thorikos and Sunion, April 1862 (K); plain of Naupactos, May 1862 (K); between Galaxidi and Xylogaidara, May 1862 (K); Glen of Metochion, above Sikyon, June 1862 (K).

Malope malacoides L.: Euboea, May 1855 (K); near Labadia [Livadia], May 1862 (K).

Malva cretica Cav.: between Argos & Corinth, April, 1862 (K); *M. nicaeensis* All.: between Thorikos and Keratia [Keratheia], May 1862 (K).

Thymelaeaceae

Daphne oleoides Schreb.: mountains of Euboea, May 1855 (K); Parnassos, May 1862 (K); Khelmos, near the falls of the Styx, May 1862 (K).

Thymelaea tartonraira (L.) All. subsp. *argentea* (Sm.) Holmboe: rocky waste at the foot of Pentelicus, April 1855 (K); Hymettus, March 1862 (K).

Guttiferae [Hypericaceae, Clusiaceae]

Hypericum aegypticum L.: Sphacteria, April 1862 (K); *H. apollinis* Boiss. & Heldr.: pass by Gravia and Topolia, May 1855 (K); plateau of Livadi (Parnassos), May 1862 (K); *H. empetrifolium* Willd.: between Thorikos and Sunium, April 1862 (K); between Marcopoulo and Marathon, May 1862 (K); *H. perfoliatum* L.: mountains of Laconia, May 1855 (K); plain of Tanagra, May 1855 (PH); between Mt Elias and Ithome, April 1862 (K); between Grammatikos and Oropos, May 1862 (K); *H. olympicum* L.: mountains of Laconia, descent into Vurlia, May 1855 (K); mountains of Euboea, May 1862 (K); valley of the Styx, May 1862 (K); *H. triquetrifolium* Turra: between Athens and Phalerum, June 1862 (K); Athens, Plateoa, June 1862 (PH).

Violaceae

Viola aetolica Boiss. & Heldr.: pass from Megaspelion into the valley of the Styx, May 1862 (K); *V. heterophylla* Bertol. subsp. *graeca* (W. Becker) W. Becker: Parnassos, Mana to Karkaria, May 1862 (K); valley of the Styx, May 1862 (K); *V. hymettia* Boiss. & Heldr.: mountains of Ag. Elias, March 1862 (K).

Cistaceae

Cistus incanus L.: Corfu, road to Pelleka, April 1855 (K); Corfu, toad to Garuma, April 1855 (K); Corfu, April 1855 (CGE); *C. monspeliensis* L.: Corfu, 1855 (CGE); *C. parviflorus* Lam.: at the foot of Pentelicus, April 1855 (CGE); rocky hills in the plain of Helos, March 1862; Skironian road [Kake Skala], April 1862 (K).

Fumana arabica (L.) Spach.: between Dramisi and Menclaos, March 1862 (K); *F. thymifolia* (L.) Spach ex Webb: Corfu, Paleocastrizza, April 1855 (CGE, K); Kephissia, April 1862 (K).

Helianthemum apeninnum (L.) Mill.: Isthmus of Corinth, April 1862 (K); *H. hymettium* Boiss. ex Heldr.: foot of Pentelicus, April 1855 (K); Kephissia, April 1862 (K); *H. lavandulifolium* Mill.: Euboea, in the mountains, May 1855 (K); between Marcopoulo and Marathon, May 1862 (K); *H. nummularium* (L.) Mill.: Parnassos, May 1855 (K).

Tuberaria guttata: rocky sides of Mount Parnes, on the ascent to Phyle, April 1855 (K).

Tamaricaceae

Tamarix hampeana Boiss. & Heldr.: bay of Phalerum, March 1862 (K); promontory of Sunion, April 1862 (K); Thermophylae, May 1862 (K); *T. smyrnensis* Bunge: marshy plain by the Gulf of Corinth, between Galaxidi & Xylogaidara, May 1862 (K); *T. tetrandra* Pall. ex M. Bieb.: bed of the Evrontas, below Sparta, March 1862 (K); Peloponnese, April 1862 (K).

Frankeniaceae

Frankenia hirsuta L.: beach near Kalamaki, Isthmus of Corinth, May 1855 (K); Attica, Thorikos, April 1862 (K); Attica, Thorikos, April 1862 (K); on the Polyandrum at Marathon, May 1862 (K); beach near the castle of Antirrhium on the Corinthian Gulf, May 1862 (K).

Lythraceae

Lythrum junceum Banks & Sol.: Athens, near the olive wood, in a marshy place, May 1855 (CGE, K); Navarino, April 1862 (K); Psathropyrgos, on the coast of Achaia (between Rhium & Apum), May 1862 (K).

Umbelliferae [Apiaceae]

Ammi majus L.: Metochia, above Sikyon, June 1862 (K).

Bunium ferulaceum Sm.: Tatoi, Kekalia, April 1862 (K); Khelmos, south of the valley of the Styx, June 1862 (K).

Bupleurum glumaceum Sm.: Megara, May 1855 (K); between Galaxidi & Xylogaidara, May 1862 (K); *B. gracile* d'Urv.: Eleusis, May 1855 (K); *B. trichopodium* Boiss.: Khelmos, June 1862 (MEL).

Carum heldreichii Boiss. [*Carum rupestre* Boiss. & Heldr.]: Kyllene, at the head of the gorge of Phlambouritza, June 1862 (K).

Caucalis latifolia L.: Euboea, Plain of Xerochori, May 1855 (K); Cornfields near Megara, April 1862 (K).

Conium maculatum L.: convent of Megaspelion, May 1862 (K).

Eryngium campestre L.: bay of Phalerum, June 1862 (K).

Ferulago nodosa (L.) Boiss.: pass across Mt Oeta, from Molos to Elateria [Elatea], May 1862 (K); coast of the Corinthian Gulf, May 1862 (K); *F. sylvatica* (Besser) Rchb.: Parnassos, ascent from Bagna to Gournia, May 1862 (K).

Lagoecia cuminoides L.: Eleusis, April 1855 (K); Skironian road [Kake Skala], April 1862 (K); Marcopoulo, May 1862 (K).

Malabaila aurea (Sm.) Boiss.: Corfu, ascent to Pantaleone, April 1855 (K); plain of Lamia, May 1855 (K); plain of Achladia, May 1862 (K); *M. involucrata* Boiss. & Spruner: mountains of Euboea, May 1855 (K); between Marathon & Rhamn'us, May 1862 (K).

Oenanthe pimpinelloides L.: near Navarino, April 1862; Ithome, April 1862 (K).

Orlaya grandiflora (L.) Hoffm.: Corfu, at the foot of Pantaleone, April 1855 (K); *O. kochii* Heywood: plain of Argos, April 1862 (K).

Scaligeria cretica (Mill.) Boiss.: between Thorikos & Keratia, May 1862 (K).

Scandix australis L. subsp. *grandiflora* (L.) Thell.: pass from Gravia to Topolia, and the valley of Salona, May 1855 (K); ascent

from Delphi, May 1855 (K); Plain of Argos, April 1862 (K); Parnassos, ascent to Gournna, May 1862 (K).

Smyrniium perfoliatum L.: Corfu, road to Garuna, April 1855 (K); *S. rotundifolium* Mill.: foot of Ithome, April 1862 (K).

Thapsia garganica L.: Marathon, May 1862 (K).

Tordylium apulum L.: descent from Andritzena, to the valley of the Alpheus, May 1855 (K).

Torilis leptophylla (L.) Rchb. f.: Eleusis, April 1855 (K); Plain of Argos, April 1862 (K).

Ericaceae

Arbutus andrachne L.: Pentelicus, March 1862 (K).

Erica manipuliflora Salisb.: between Grammatikos & Oropos, May 1862 (K).

Primulaceae

Cyclamen peloponnesiacum (Grey-Wilson) Kit Tan: descent from Vurlia, into the valley of Lacedaemon, March 1862 (K).

Lysimachia atropurpurea L.: descent from Leonardi into Messinia, May 1855 (K); bed of a river near Ithome, April 1862 (K); Bagna, at the foot of Parnassos, May 1862 (K); *L. serpyllifolia* Schreb.: ascent to Gournna, May 1862 (K); Khelmos, southern ridge, June 1862 (K).

Primula vulgaris Huds.: near the top of Taygetos, between Kastania & Kalamata, April 1862 (K).

Plumbaginaceae

Armeria undulata (Bory) Boiss.: mountains of Laconia, May 1855 (K); Khelmos, northern ridges, June 1862 (K).

Limonium sinuatum (L.) Mill.: Eleusis, April 1855 (CGE).

Styracaceae

Styrax officinalis L.: by the Kephissus, April 1862 (K).

Apocynaceae

Vinca herbacea Waldst. & Kit.: Khan of Daouli, between Argos & Tripolitza, March 1862 (K).

Asclepiadaceae

Cionura erecta (L.) Griseb.: Krisaeian Plain, May 1862.

Vincetoxicum hirundinaria Medik. subsp. *nivale* (Boiss. & Heldr.) Markgr.: Khelmos, near the falls of the Styx, May 1862 (K).

Rubiaceae

Asperula arcadiensis Sims: Mountains of Bura, May 1862 (K); pass from Megaspelion, into the valley of the Styx, May 1862 (K); Kyllene, near Trikkala, June 1862 (K); *A. arvensis* L.: Parnassos, May 1855 (K).

Galium firmum Tausch: mountains of Bura, May 1862 (K); *G. intricatum* Margot & Reut.: mountains of Xylogaidara, north-west of the Corinthian Gulf, May 1862 (K); *G. thymifolium* Boiss. & Heldr.: mountains above the valley of the Styx, May 1862 (K).

Rubia tenuifolia d'Urv.: between Menclaos & Epidavros Limera, March 1862 (K); mountains above Navarino, April 1862 (K).

Theligonium cynocrambe L.: Kephissia, April 1862 (K).

Valantia hispida L.: between Menclaos & Epidavros Limera, March 1862 (K); between Epidavros Limera & Monemvasia, March 1862 (K); between Thorikos & Keratia, May 1862 (K).

Convolvulaceae

Convolvulus althaeoides L. subsp. *althaeoides*: Thorikes, May 1862 (K); *C. althaeoides* L. subsp. *tenuissimus* (Sm.) Stace [*C. elagantissimus* Mill.]: mountains behind Sikyon, May 1855 (K); *C. cantabrica* L.: pass from Oeta, from Molos to Elateria [Elatea], May 1862 (K); *C. dorycnium* L.: bay of Phalerum, June 1862 (K); *C. oleifolius* Desf.: Kake Scala, from Megara to the Isthmus, May 1855 (K); Skironian road [Kake Skala], April 1862 (K).

Cuscuta approximata Bab.: between Epidavros Limera and Monemvasia, March 1862 (K).

Boraginaceae

Alkanna graeca Boiss. & Spruner subsp. *baeotica* (DC.) Nyman: ascent to Phyle, April 1855 (K); *A. graeca* Boiss. & Spruner subsp. *graeca*: Corfu, ascent of Pantalerne, April 1855 (K); forrests of Messinia, April, 1862 (MEL); *A. orientalis* (L.) Boiss.: to Delphi, from the plateau of Livadi [Arakhova], May 1862 (K).

Anchusa spruneri Boiss.: Megara, March 1862 (K); *A. undulata* L. subsp. *hybrida* (Ten.) Cout.: between Athens and Phalerum, March 1862 (K); between Menclaos and Epidavros Limera, March 1862 (K).

Anchusella cretica (Mill.) Bigazzi, E. Nardi & F. Selvi: Corfu, February 1862 (K); *A. variegata* (L.) Bigazzi, E. Nardi & F. Selvi: ascent to Phyle, April 1855 (K).

Asperugo procumbens L.: Chassia, at the foot of the ascent to Phyle, April 1855 (K).

Ballota acetabulosa (L.) Benth.: near Athens, May 1855; Skironian road [Kake Skala], May 1855 (K).

Buglossoides arvensis (L.) I.M. Johnst. subsp. *sibthorpiianum* (Griseb.) R. Fern.: bay of Phalerum, March 1862 (K); *B. tenuiflora* (L. f.) I.M. Johnst.: between Athens & Phalerum, March 1862 (K).

Cynoglossum columnae Ten.: valley of the Evrontas, March 1862 (K); Daouli, between Argos and Tripolitza, March 1862 (K).

Echium angustifolium Mill.: Athens, near the Academy, April 1855 (K); Kalamaki, Isthmus of Corinth, April 1855 (K); Acrocorinth, April 1862 (K); *E. parviflorum* Moench: Lerna, near Argos, March 1862 (K); *E. plantagineum* L.: between Mt Elias and Ithome, April 1862 (K); between Gythion and Levezova, April 1862 (K).

Macrotomia densiflora (Ledeb. ex Nordm.) J.F. Macbr. [*Arnebia densiflora* Ledeb.]: Khelmos, near the falls of the Styx, May 1862 (K); Khelmos, southern ridges, June 1862 (K).

Myosotis incrassata Guss.: Daouli, between Argos & Tripolitza, March 1862 (K); *M. refracta* Boiss.: ascent to Gournna from Pagna, Parnassos, May 1862 (K); *M. sylvatica* Hoffm.: pass from Gravia to Topolia, in the valley of Salona, May 1855 (K).

Neatostema apulum (L.) I.M. Johnst. [*Lithospermum apulum* (L.) Vahl]: lower part of Pentelicus, April 1855 (PH).

Onosma frutescens Lam.: ascent to Phyle, April 1855 (K); Palamedon at Nauplion, April 1855 (K); Lerna, near Argos, March 1862 (K); *O. heterophylla* Griseb.: Euboea, in the mountains, May 1855 (K); between Lebadea and Triodos, May 1862 (K); pass from Mt Oeta, from Molos to Elateria [Elatea], May 1862 (K); Megaspelion, May 1862 (K).

Rindera graeca (A. DC.) Boiss. & Heldr.: Khelmos, May-June 1862 (K).

Symphytum bulbosum K.F. Schimp. [*S. brochum* Bory & Chaub.]: Taygetos, between Kastania and Kalamata, April 1862 (K); forest on the way to Navarino, April 1862 (K).

Labiatae [Lamiaceae]

Acinos alpinus (L.) Moench: descent from Mt Oeta towards Gravia in Doris, May 1855 (K); *A. rotundifolius* Pers.: Grammatikos Orofos, May 1862 (K).

Ajuga chamaepitys (L.) Schreb. var. *chia* (Schreb.) Arcang.: lower part of Pentelicus, April 1855 (K); plain of Argos, March 1862 (K); *A. iva* (L.) Schreb.: valley of the Alpheus, May 1855 (K); *A. orientalis* L.: Parnassos, May 1862 (K); between Galaxidi & Xylogaidara [Mt Xerovouna], May 1862 (K).

Lamium bifidum Cirillo: between Xerocampo & Ag. Ioannes, April 1862 (K); forest of Messinia, April 1862 (K); Karvailia, at the foot of Taygetos, April 1862 (K); *L. garganicum*

L.: Hymettus, March 1862 (K); pass across the range of Parthinium, from Tzipiana to the plains of Argos, April 1862 (K); *L. moschatum* Mill.: within the walls of Tiryns, March 1862 (K).

Marrubium cylleneum Boiss. & Heldr.: pass from Megaspelion into the valley of the Styx, May 1862 (K).

Micromeria graeca (L.) Benth. ex Rchb.: ascent of Kithaeron [Elatias] by the pass of Dryos Kephalaie, May 1855 (K); *M. juliana* (L.) Benth. ex Rchb.: Eleusis, April, 1855 (K); Athens, May 1855 (K); ascent from Olgium to Bura, May 1862 (K); *M. nervosa* (Desf.) Benth.: between Epidavrus Limera & Monemvasia, March 1862 (K); Skironian road [Kake Skala], April 1862 (K).

Phlomis herba-venti L. subsp. *pungens* (Willd.) Maire ex DeFilippis: valley of Elateria, May 1862 (K).

Prunella laciniata (L.) L.: between Grammatikos & Orofos, May 1862 (K).

Salvia amplexicaulis Lam.: plain of Lamia, May 1862 (K); *S. argentea* L.: [Euboea] Plain of Chalkis [Euripos], May 1855 (NA); plain of Lamia, May 1862 (K); *S. candidissima* Vahl.: from the Isthmus, ascending Gerania, June 1862 (K); *S. ringens* Sm.: in woods of Megaspelion, May 1862 (K); *S. triloba* L. f.: Marathon, May 1862 (K); *S. verticillata* L.: plain of Naupactos, May 1862 (K); *S. virgata* Jacq.: on the coast of Psathropyrgos, May 1862 (K); *S. viridis* L.: Corfu, road to Pelleka, April 1855 (K); plain of Argos, April, 1855 (K); heights N of Alpheus, May 1855 (K); Euboea, valley of Achmetaga., May 1855 (K); Monemvasia, plain of Hellos, March 1862 (K).

Satureja thymbra L.: pass of Daphne, April 1855 (K); Epidavrus Limera, March 1862 (K); between Mt Elias & Ithomi, April 1862 (K); between Thorikos & Sounion, April 1862 (K).

Scutellaria albida L.: Gerania, on the upper road to Megara from the Isthmus, June 1862 (K).

Sideritis montana L. subsp. *remota* (d'Urv.) Heywood: Kephissia, April 1862 (K); *S. romana* L. subsp. *purpurea* (Fox Talbot ex Benth.) Heywood: Naupactos, May 1862 (K).

Stachys candida Bory & Chaub.: bridge of Xerocampo, Lavria, on rocks, April 1862 (K); *S. canescens* Bory & Chaub.: Pylos (Old Navarino), April 1862 (K); *S. cretica* L.: plain of Argos, April 1855 (MEL); *S. decumbens* Pers.: Corfu, pass of Paleocastrizza, April 1855 (K); *S. spinulosa* Sm.: Corfu, road to Santa Dakka, April 1855 (K); towards Bura, May 1862 (K); *S. spruneri* Boiss. & Benth.: ascent to Phyle, April 1855 (K); *S. swainsonii* Benth. subsp. *swainsonii*: Bachova, on the side of Parnassos, May 1862 (K); *S. swainsonii* Benth. subsp. *scyronica* (Boiss.) Phitos & Damboldt: Eleusis & Megara, May 1855 (K).

Teucrium aroanium Orph. & Boiss.: Khelmos, near the valley of the Styx, May 1862 (K); *T. divaricatum* Sieber ex Boiss.: Skironian road [Kake Skala], elsewhere in the Peloponese, May 1855 (K); between Galaxidi and Xylogaidara, May 1862 (K); *T. flavum* L. subsp. *hellenicum* Rech.f.: ascent towards Oeta from the plain, May 1862 (K); *T. lamifolium* d'Urv.: Thrace, Therapia, July 1862 (K).

Thymbra spicata L.: roots of Mt Kithaeron, near Plataea, June 1862 (K).

Thymus capitatus (L.) Hoffmanns. [*Coridothymus capitatus* (L.) Rchb. f.]: mountains behind Sikyon, May 1855 (K); plain of Olgium, May 1862 (K); *T. longicaulis* C. Presl subsp. *chaubardii* (Boiss. & Heldr. ex Rchb. f.) J. Jalas: hills of Bagni at the foot of Parnassos, May 1862 (K); *T. teucrioides* Boiss. & Spruner: pass across Oeta from Molos to Elateria, May 1862 (K).

Solanaceae

Withania somnifera (L.) Dunal: hill of Monemvasia, March 1862 (K).

Scrophulariaceae

Bellardia trixago (L.) All.: in the wet parts of the plain of Argos, April 1855 (K); Lebadea [Livadia], May 1862 (K).

Linaria chalepensis (L.) Mill.: Marathon, May 1862 (K); cornfields near Oropos, May 1862 (MEL); *L. micrantha* (Cav.) Hoffmanns. & Link: Khan of Daouli, between Argos & Tripolitza, March 1862 (K); *L. pelisseriana* (L.) Mill.: between Menclaos & Epidavros Limera, March 1862 (K).

Pareutellia latifolia (L.) Caruel: valley of Sparta, March 1862 (K).

Scrophularia canina L. subsp. *bicolor* (Sm.) Greuter: Athens, near the Academy, April 1855 (K); near Navarino, April 1862 (K); *S. heterophylla* Willd.: Corfu, ascent to Pantaleone, April 1855 (K); Lycabettos, March 1862 (K); descent from Vurlia into the valley of Lacedaemon, March 1862 (K); *S. scopoli* Hoppe: Kyllene, at the head of the gorge of Phlambouritza, June 1862 (K).

Verbascum boissieri (Heldr. & Sart. ex Boiss.) Kuntze: pinewoods in Dekeleia, April 1855 (K); Tatio, Dekeleia, April 1862 (K); *V. guicciardii* Heldr. ex Boiss.: plain of Naupactos, May 1862 (K); *V. pinnatifidum* Vahl: bay of Phalerum, June 1862 (K); *V. undulatum* Lam.: between Achladia and Lamia, May 1862 (K); between Argos and Corinth, April 1862 (K).

Acanthaceae

Acanthus spinosus L.: valley of the Evrontas, May 1855 (K); Metokion, near Sikyon, June 1862 (K).

Orobanchaceae

Orobancha crenata Forssk.: plain of Argos, April 1855 (K); *O. ramosa* L. subsp. *mutelii* (F.W. Schultz) Cout: Colonos, April 1855 (K); plain of the Pamisos, April 1862 (K); Parnassos, Mana to Karkaria, May 1862 (K).

Lentibulariaceae

Pinguicula hirtiflora Ten.: valley of the Styx, May 1862 (K).

Plantaginaceae

Plantago albicans L.: mountains behind Sikyon, May 1855 (K); Skironian road [Kake Skala], April 1862 (K); *P. bellardii* All.: pine woods of Dekeleia, May 1855 (K); between Dramisi & Menclaos, in Laconia, March 1862 (K); *P. subulata* L.: Khelmos, southern ridges, June 1862 (K).

Caprifoliaceae

Lonicera etrusca Santi: between Luictra [Leuktra] and Platea, May 1855 (K); mountains of Xylogaidara on the Corinthian gulf, May 1862 (K).

Valerianaceae

Valeriana dioscoridis Sm.: descent from Vurlia into the valley of Lacedaemon, March 1862 (K); *V. tuberosa* L.: Parnassos, Karkaria, May 1862 (K).

Valerianella coronata (L.) DC.: Corfu, ascent to Pantaleone, April 1855 (K); pass of Daphne, April 1855 (K); between Thorikos and Kerala, May 1862 (K); *V. echinata* (L.) DC.: Parnassos, May 1855 (K); Plain of Tanagra, May 1855 (K); *V. hirsutissima* Link: lower part of Pentelicus, April 1855 (K); pine woods of Dekeleia, May 1855 (K); Kephissia, April 1862 (K); *V. muricata* (Steven ex M. Bieb.) J.W. Loudon: between Marcopoulos & Marathon, May 1862 (K); Euboea, plain of Xerochori, May 1862 (K); *V. obtusiloba* Boiss.: descent from Andritsena to the valley of the Alpheus, May 1855 (K); *V. versicaria* (L.) Moench: pass of Daphne, April 1855 (K); Kephissia, April 1862 (K); between Thorikos & Kerala, May 1862 (K).

Dipsacaceae

Knautia integrifolia (L.) Bertol.: Corfu, near the race course, April 1855 (K); Navarino, April 1862 (K); pass over the range of

Parthenium, from Tzipiana to Argos, April 1862 (K); *K. orientalis* L.: mountains of Northern Euboea, May 1862 (K).

Ptercephalus perennis Coult.: convent & mountains of Megaspelion, in clefts of rocks, May 1862 (K); *P plumosus* (L.) Coult.: Megaspelion, May 1862 (K).

Tremastelma palaestinum (L.) Janch. [*Scabiosa sibthorpiana* (Boiss.) Sm.]: Vurlia in the mountains of northern Lamia, May 1855 (K); the Galaxidi station [no date] (K); plateau of Livadi, Parnassos, May 1862 (K); mountains of Bura, May 1862 (K).

Morinaceae

Morina persica L.: Khelmos, near the falls of the Styx, May 1862 (K); descent from Kyllene, near Trikkala, June 1862 (K).

Campanulaceae

Asyneuma limonifolium (L.) Janch.: Mountains of Bura, May 1862 (K).

Campanula andrewsii A. DC.: covering the rocks of the Palamedon at Nauplia, April 1855 (K); *C. celsii* A. DC.: Monemvasia, March 1862 (K); Acrocorinth, April 1862 (K); Khelmos, northern ridge, June 1862 (K); *C. drabifolia* Sm.: about Athens, April & May 1855 (K); Monemvasia, March 1862 (K); Acrocorinth, April 1862 (K); *C. ramosissima* Sm.: Corfu, pass to Paleocastrizza, April 1855 (K); descent to Navarino, April 1862 (K); *C. spatulata* Sm. subsp. *spruneriana* (Hampe) Hayek: hills towards Monemvasia, March 1862 (K); Mt Elias, near Navarino, April 1862 (K).

Legousia falcata (Ten.) Fritsch: Mt Khelmos, southern ridge, June 1862 (K).

Compositae [Asteraceae]

Achillea fraasii Sch.Bip.: Khelmos, near the falls of the Styx, May 1862 (K); *A. grandifolia* Friv.: Megaspelion, near the convent, May 1862 (K); *A. ligustica* All.: Megaspelion, May 1862 (K); mountains of Bura, May 1862 (K); *A. umbellata* Sm.: Parnassos, ascent from Bagna to Gourna, May 1862 (K); pass from Megaspelion, into the valley of the Styx, May 1862 (G-BOISS, K); Mt Khelmos, northern ridge, June 1862 (K).

Aetheorhiza bulbosa (L.) Cass.: between Dramisi & Menclaos, March 1862 (K); beach at Oropos, May 1862 (K).

Anthemis chia L.: Corfu, Paleocastrizza, February 1862 (K); Daouli, between Argos and Tripolitza, March 1862 (K); *A. triumphetti* (L.) DC. [*A. tinctoria* L. var. *discoidea* (All.) Archang.]: Molos, near Thermophylae, May 1862 (K); pass across Oeta, from Molos to Elateria, May 1862 (K); *A. tomentosa* L.: roadsides, near Athens, April 1862 (K).

Asteriscus aquaticus (L.) Less. Corinth, Kalamaki, April 1862 (K); Thorikos, May 1862 (K).

Calendula arvensis L. subsp. *bicolor* (Raf.) Nyman: between Athens and Phalerum, March 1862 (K).

Cardopatum corymbosum (L.) Pers.: Phalerum, 1862 (K).

Carduus australis L. f.: mountains of lake Stymphalus, May 1855 (K).

Centaurea achaia Boiss. & Heldr.: foot of Geraneia, towards the Isthmus of Corinth, June 1862 (K); *C. ebanooides* Heldr. ex S. Moore: forests of northern Euboea, May 1862 (K); *C. pelia* DC.: Geraneia, June 1862 (K); *C. raphanina* Sm. subsp. *mixta* (DC.) Runemark: pass of Daphne, May 1855 (K); between Sparta & Kastania, April 1862 (K); *C. spinosa* L.: bay of Phalerum, June 1862 (K); *C. triumphetti* All.: mountains of Lake Stymphalus, May 1855 (K); plateau of Livadi, Parnassos, May 1862 (K).

Chondrilla ramosissima Sm.: Kephissia, April 1862 (K).

Cicorium endivia L. subsp. *divaricatum* (Schousb.) P.D. Sell [*C. pumilum* Jacq.]: between Marcopoulos & Marathon, April 1862 (K).

Cirsium italicum (Savi) DC.: plain of Messinia, between Kalamata & Nisi, April 1862 (K).

Cnicus benedictus L.: Mycene, March 1862 (K); between Argos & Corinth, April 1862 (K).

Crepis dioscoridis L.: hill of Monemvasia, March 1862 (K); *C. fraasii* Sch.Bip. [*Crepis montana* d'Urv., non Bernh.]: Rhizomylos in Messinia, April 1862 (K); forests on northern Euboea, May 1862 (K); *C. rubra* L.: descent into the valley of Elateria, May 1855 (K); Platea, May 1855 (K); summit of Acrocorinth, May 1855 (K); Menclaos, in South-eastern Laconia, March 1862 (K); Navarino, April 1862 (K); *C. sancta* (L.) Babc.: descent from Vurlia into the valley of Lacedaemon, March 1862 (K).

Crupina crupinastrum (Moris) Vis.: Skironian road [Kake Skala], April 1862 (K).

Doronicum columnae Ten.: Parnassos, Mana, May 1862 (K); *D. orientale* Hoffm.: pass across Parthenium from Tzipiana to the plain of Argos, April 1862 (K); Taygetos, between Kastania & Kalamata, April 1862 (K).

Echinops graecus Mill.: Megara, June 1862 (PH).

Hedypnois cretica (L.) Dum.Cours.: bay of Phalerum, March 1862 (K); between Dramisi & Menclaos, Laconia, March 1862 (K).

Helichrysum stoechas (L.) Moench subsp. *barrelieri* (Ten.) Nyman: Kephissia, April 1862 (K).

Hypochoeris achyrophorus L. [*H. aethnensis* (L.) Ball]: Thermophylae, May 1855 (K); promontory of Munychia, March 1862 (K); plain of Achladia, May 1862 (K); *H. cretensis* (L.) Bory & Chaub.: sands of Pylos, Old Navarino, April 1862 (K); Thorikos, May 1862 (K).

Hyoseris scabra L.: promontory of Munychia, March 1862 (K); Skironian road [Kake Skala], March 1862 (K); amphitheatre of Corinth, March 1862 (K).

Inula verbascifolia (Willd.) Hausskn. subsp. *parnassica* (Boiss. & Heldr.) Tutin: rocks at Delphi, May 1862 (K).

Jurinea glycantha (Sm.) DC.: Megaspelion, May 1862 (K); mountains of Euboea, May 1862 (K).

Leontodon crispus Vill. subsp. *graecus* Boiss. & Heldr.: Tatoo, Dekeleia, April 1862 (K); *L. tuberosus* L.: mountains of Euboea, May 1862 (K).

Onopordum argolicum Boiss.: near the walls of Tyrins, April 1855 (K); on the Polyandrum at Marathon, May 1862 (K); *O. caulescens* d'Urv [*O. sibthorpium* Boiss. & Heldr.]: bay of Phalerum, June 1862 (K).

Phagnalon graecum Boiss. & Heldr.: Lycabettos, 30 April 1862 (K); Skironian road [Kake Skala], April 1862 (K).-+

Pulicaria odora (L.) Rchb.: plain of Naupactos, May 1862 (K).

Scolymus grandiflorus Desf.: between Galaxidi & Xylogaidara, May 1862 (K).

Scorzonera crocifolia Sm.: lower part of Pentelicus, April 1855 (K); Skironian road [Kake Skala], April 1862 (K); Tatoo, Dekeleia, April 1862 (K); *S. laciniata* L.: valley of Elateria, May 1855 (K); descent from Vurlia into the valley of Lacedaemon, March 1862 (K); Attica, Marcopoulos, May 1862 (K); *S. mollis* M. Bieb.: Lycabettos, March 1862 (K).

Senecio vernalis Waldst. & Kit.: plain of Argos, March 1862 (PH); plain of Sparta, March, 1862 (PH); Pylos (Old Navarino, April 1862 (MEL); Khan of Francovrisi, April 1862 (PH).

Sonchus asper (L.) Hill. var. *glaucescens* (Jord.) Ball.: Sparta, April 1862 (K); Keratia, Attica, May 1862 (K).

Streptorhamphus tuberosus (Jacq.) Grossh. [*Lactuca tuberosa* Jacq.]: between Sparta & Leondari, May 1855 (K); between Thorikos & Keratia, May 1862 (K).

Tragopogon brevisrostris DC. subsp. *longifolius* (Heldr. & Sart. ex Boiss.) I. Richardson: marsh at Marathon, May 1862 (K); *T. porrifolius* L.: near Navarino, April 1862 (K); Skironian road [Kake Skala], April 1862 (K).

Tyrimnus leucographus (L.) Cass.: plain of Xerochori, May 1862 (K); mountains of Euboea, May 1862 (K).

Monocotyledones

Alliaceae

Allium amethystinum Tausch: plain of Naupactos, May 1862 (K);
A. atroviolaceum Boiss.: cornfield near Athens, towards the olive wood, May 1855 (K); *A. cyrilli* Ten.: plateau of Livadi [Arakhova], Parnassos, May 1862 (K); *A. meteoricum* Heldr. & Hausskn. ex Halácsy: pass across Mt Oeta, from Molos to Elateria, May 1862 (K); *A. neapolitanum* Cirillo: Corfu, road to Pelleka, April 1855 (K); Epidavros Limera, March 1862 (K); *A. roseum* L.: vineyards at Patras, April 1855 (K); pinewoods of Dekeleia, May 1855 (K); *A. scorodoprasum* L. subsp. *rotundum* (L.) Stearn: Marathon, May 1862 (K); *A. staticiforme* Sm. [*A. phalerum* Heldr. & Sart. ex Heldr.]: bay of Phalerum, June 1862 (K); *A. subhirsutum* L.: between Menclaos and Epidavros Limera, March 1862 (K).

Amaryllidaceae

Sternbergia lutea (L.) Ker Gawl. ex Spreng. subsp. *sicula* (Tineo) D.A. Webb: Parnassos, May 1862 (K).

Asphodelaceae

Asphodeline lutea (L.) Rchb.: Kerata [Mt Eleusis] range, across from Megara to Eleusis, June 1862 (K).

Hyacinthaceae

Bellevalia ciliata (Cirillo) Nees: plain of Argos, March 1862 (K); *B. dubia* (Guss.) Rchb.: hill of Monemvasia, March 1862 (K).

Muscari botryoides (L.) Mill.: Parnassos, May 1862 (K).

Ornithogalum collinum Guss.: bay of Phalerum, March 1862 (K);
O. narbonense L.: cornfield near Gravia in Doris, May 1855 (K); *O. sibthorpii* Greuter: Parnassos, Mana to Kavkaria, May 1862 (K).

Scilla messeniaca Boiss.: ravine of Taygetos, near Karvailia, April 1862 (K); *S. nivalis* Boiss.: pass across Taygetos, from Kastania to Kalamata, April 1862 (K); highest cone of Parnassos, May 1862 (K); Parnassos, Karkaria, May 1862 (K).

Colchicaceae

Colchicum parnassicum Sart., Orph. & Heldr. ex Boiss.: Parnassos, Mana, May 1862 (K).

Liliaceae

Fritillaria graeca Boiss. & Spruner: Parnassos, Karkaria, May 1862 (K).

Gagea bohemica (Zauschn.) Schult. & Schult. f.: Lycabettos, March 1862 (K); *G. chrysantha* Schult. & Schult. f.: pass across Taygetos from Kastania to Kalamata, April 1862 (K); between Kyra Vrysis and Vurlia, March 1862 (K); *G. fibrosa* (Desf.) Schult. & Schult. f.: Mykinoe [Mycene], near the mines, March 1862 (K); *G. graeca* (L.) A. Terracc.: various places in Laconia, March 1862 (K); descent from Parthenium to the plain of Argos, April 1862 (K); *G. peduncularis* (J. Presl & C. Presl) Pascher: Hymettus, March 1862 (K).

Lilium chalcedonicum L.: Bagna, at the foot of Parnassos, May 1862 (K).

Tulipa orphanidea Boiss. ex Heldr.: plain of Tripolis, April 1862 (K).

Urginea maritima (L.) Baker: coast near Monemvasia, March 1862 (K).

Iridaceae

Crocus olivieri J. Gay: between Tagea & Kyra Vrysis, March 1862 (K); *C. sieberi* J. Gay subsp. *atticus* (Boiss. & Orph.) B. Mathew: upper part of Pentelicus, March 1862 (K); upper part of Pentelicus, March 1862 (K); *C. sieberi* subsp. *nivalis* (Bory & Chaub.) B.

Mathew: pass across Taygetos from Kastania to Kalamata, April 1862 (K); *C. sieberi* subsp. *sublimis* (Herb.) B. Mathew: Parnassos, between Mane & Karkaria, May 1862 (K).

Gladiolus communis L. subsp. *byzantinus* (Mill.) A.P. Ham.: Corinth, April 1862 (K); *G. italicus* Mill. [*G. segetum* Ker Gawl.]: Island of Sphacteria, April 1862 (K); mountains of Northern Euboea, 1862 (K).

Gynandris sisyrrinchium (L.) Parl.: Megara, March 1862; Navarino, April 1862 (K).

Hermodactylus tuberosus (L.) Mill.: plain of Corinth, March 1862 (K); Hymettus, 1862 (K).

Iris pumila L. subsp. *attica* (Boiss. & Heldr.) Hayek: Parnassos, plateau of Livadi [Arakhova], May 1862 (K); *I. sintenisii* Janka: roots of mount Kyllene above the village of Gournia, June 1862 (K); *I. unguicularia* Poir.: Corfu, February 1862 (K).

Romulea bulbocodium (L.) Sebast. & Mauri: Corfu, Garuna, February 1862 (K); valley of Mantinea, March 1862 (K); *R. columnae* Sebast. & Mauri: Hymettus, March 1862 (K); *R. linaresii* Parl.: Hymettus, March 1862 (K).

Juncaceae

Luzula nodulosa (Bory & Chaub.) E. Mey.: Tatio, Dekeleia, April 1862 (K); pass across Taygetos, near Karvalia, April 1862 (K).

Gramineae [Poaceae]

Aegilops comosa Sm. subsp. *heldreichii* (Boiss.) Eig: Eleusis, May 1855 (K); *A. lorentii* Hochst. [*A. biuncialis* Vis.]: between Marcopoulo & Marathon, May 1862 (K); *A. ovata* L.: mountains of Sicyon, 1855 (CGE); *A. triuncialis* L.: pass across Oeta, from Molos to Elateria [Elatea], May 1862 (K).

Alopecurus rendlei Eig.: base of Arcadian Orchomenos, May 1855 (K); foot of Mt Ithome, April 1862 (K).

Briza maxima L.: Lycabettos, 1855 (CGE).

Bromus scoparius L.: near Budonitza, in the descent from Mt Oeta towards Gravia in Doris, May 1855 (K); Kephissia, April 1862 (K); *B. sterilis* L.: between Thorikos & Keratia, May 1862 (K).

Chrysopogon gryllus (L.) Trin. [*Andropogon gryllus* L.]: valley of the Alpheius, 1855 (CGE).

Cynosurus echinatus L.: ascent to Phyle, April 1855 (K); olive wood near Athens, May 1855 (K).

Dactylis glomerata L. subsp. *hispanica* (Roth.) Nym: between Thorikos and Sunion, April 1862 (K).

Dasypyrum villosum (L.) Candargy: Athens, May 1855 (CGE); Northern Greece, May 1862 (K).

Hyparrhenia hirta (L.) Stapf.: plain of Argos, March 1862 (K); Kephissia, April 1862 (K).

Milium vernale M. Bieb.: Parnassos, ascent to Gournia, May 1862 (K).

Phalaris minor Retz.: Marathon, May 1862 (K); *P. paradoxa* L.: Athens, near the Olive woods, May 1855 (K); between Thermophylae & Molos, May 1862 (K).

Phleum echinatum Host.: between Menclaos and Epidavros Limera, March 1862 (K); plain of Helos, March 1862 (K); Khan of Francovrysis, April 1862 (K).

Piptatherum miliaceum (L.) Coss. [*Oryzopsis miliaceae* (L.) Benth. & Hook. ex Asch. & Graebn.]: Kephissia, Attica, April 1862 (K).

Polygogon maritimus Willd.: sandy beach at Oropos, May 1862 (K).

Sesleria taygetea Hayek: ravine of Taygetos, near Karvalia, April 1862 (K); *S. tenerrima* (Fritsch) Hayek: Parnassos, Karkaria, May 1862 (K); *S. vaginalis* Boiss. & Orph.: Parnassos, Mana, May 1862 (K).

Stipa bromoides (L.) Dörf.: Kerata [Mt Eleusis] range, crossing from Megara to Elenthoe [Eleusis], June 1862 (K); *S. fontanesii* Parl.: Kephissia, April 1862 (K).

Taeniatherum caput-medusae (L.) Nevski: between Marcopoulo and Marathon, May 1862 (K).

Araceae

Dracunculus vulgaris Schott: plain of Lamia, May 1855 (K).

Cyperaceae

Carex distachya Desf.: defile of Dervenakia between Corinth & Argos, March 1862 (K); between Kyra Vyrsis & Vurlia, March 1862 (K); Tatoe, April 1862 (K); *C. distans* L.: Tatoe, Dekeleia, April 1862 (K); *C. illegitima* Cesati: between Menclaos and Epidavros Limeria, March 1862 (K).

Orchidaceae

- Anacamptis pyramidalis* (L.) Rich.: Marathon, May 1862 (K).
Cephalanthera damasonium (Mill.) Druce: Megaspelion, May/June 1862 (K); *C. rubra* (L.) Rich.: pass from Megaspelion, May 1862 (K).
Limodorum abortivum (L.) Sw.: pinewoods of Dekeleia, May 1855 (K); Peloponnese, May 1855 (K); mountains of Euboea, May 1855 (K).
Ophrys bombyliflora Link: bay of Phalerum, March 1862 (K); *O. ferrum-equinum* Desf.: Skironian road [Kake Skala], March 1862 (K); between Dramisi & Menclaos, March 1862 (K); forest of Messinia, April 1862 (K); *O. fusca* Link: Corfu, road to Garuna, April 1855 (K); Skironian road [Kake Skala], March 1862 (MEL); ascent from Vurlia, into the valley of Lacedaemon, March 1862 (K); between Menclaos & Epidavros Limeria & forest of Messinia, March 1862 (K); mountains of northern Euboea, May 1862 (MEL); *O. lutea* Cav. subsp. *galilaea* (H. Fleishm. & Bornm.) Soó: Levetzova, April 1862 (K); mountain of Bizanion, March 1862 (K); *O. mammosa* Desf.: descent from Vurlia into the valley of Lacedaemon, March 1862 (K); *O. scolopax* Cav. subsp. *cornuta* (Steven) E.G. Camus: Thermophylae, May 1855 (K); forests of western Euboea, May 1862 (K); *O. speculum* Link: plain of Helos, March 1862 (K); mountains of Bizanion, March 1862 (K); between Levetzova to Xerocampo, March/April 1862 (K); *O. sphogodes* Mill. subsp. *atrata* (Lindl.) Mayer: Corfu, on the road to Pelleka, April 1855 (PH); *O. umbilicata* Desf.: between Mt Elias & Isthme, April 1862 (K).
Orchis boryi Rchb. f.: forest of Messinia, April 1862 (K); between Levetzova & Xerocampo, April 1862 (K); *O. italica* Poir.: between Levetzova and Xerocampo, April 1862 (K); *O. papilionacea* L.: descent to Navarino, April 1862 (K); between Dramisi & Menclaos, March 1862 (K); *O. quadripunctata* Ten.: mountains of Bizanion, March 1862 (K); forest of Messinia, April 1862 (K); *O. tridentata* Scop.: Messinia, April 1862 (K).
Serapias vomeracea (Burm. f.) Briq.: between Nisi & Navarino, April 1862 (K); descent to Navarino, April 1862 (K); island of Sphacteria, April 1862 (K).

Appendix**Itinerary for 1855**

- April:** Arrived in Corfu on 6th April; left Corfu 15th, sailed through Corinthian Gulf, arrived in Athens on 18th; 19th visited Eleusis; 20th walked to Colonos and the Academy; 21st climbed Mt Pentelicus; 23rd visited Phyle; 28th travelled to Nauplia, Argos and Corinth;
May: 2nd May returned to Athens; 4th-5th May Euboea; 7th Gulf of Lamia; 9th Thermophylae and crossed Mt Oeta; 10th Delphi; 12th Mt Parnassos; 13th-14th Plataea, Helicon, Cithaeron, Parnes; 15th returned to Athens; 18th Megara; 19th Corinth; Lake Stymphalos [Mill's birthday]; 22nd Vurlia to Sparta; 23rd-24th crossed Mt Taygetos; 25th Mavromati [Messinia]; 26th Andritzana; 27th Khan of Olympia; 28th-29th travelled to Pyrgos and left Greece for Zante [Zakynthos] and Italy.

Itinerary for 1862

- February:** arrived in Corfu by steamer [‘incessant rain at Corfu, and of the few days we have been here, very much spoiled by a thick haze’ Letter 536 to Henry Fawcett, Mineka & Lindley, 1972];
March: arrived in Athens in early March Lycabettos; Colonos; Hymettus and Pentelicus; left Athens to bay of Phalerum; Munichia; Eleusis and Megara; Corinth; the plain of Argos/Mycenae; Lerna; Daouli; Tripolitza; Vurlia; into the valley of the Eurontas to Sparta; Dramisi and Menclaos; Bizanion; Epidavros Limena; Monemvasia; plain of Helos; Gythion; Levetsova;
April: Xerocampo; across Mt Taygetos; Kalamata; Nisi; Rhizomylos; forest of Messinia; Navarino; island of Sphacteria; Mt Elias and Mt Ithome; plain of Megalopolis to Tripolitza; pass across Mt Parthenium to Argolis; Corinth; Megara; Dekelia; returned to Athens;
May: left Athens for Thorikos and Sunion; Keratia; Marcopoulo; Marathon; Rhamnos; Grammaticos; Oropos; Euboea; plain of Lamia; Thermophylae; Pass across Mt Oeta; Elateria; Livadia; Mt Parnassos ‘We encamped two days at the foot of Parnassos, and two on the plateau of the mountain, climbed the mountain itself’ [Letter 538 to Mr Grote (Mineka & Lindley 1972)]; Mana to Karkaria (Parnassos); plateau of Livadi; Delphi; between Galaxidi & Xylogaidara; plain of Naupactos; Corinthian gulf [‘the magnificent coast from thence to Naupactos and the Strait of Rhium, where we crossed over’ Letter 538 to Mr Grote (Mineka & Lindley 1972)]; Psathropyrgos, on the coast of Achaia (between Rhium & Apum); Plain of Aegium; Mountains of Bura; Megaspelion; valley of the Styx [‘Encamped three days in the valley of the Styx’ Letter 538 to Mr Grote (Mineka & Lindley 1972)]; Mt Khelmos;
June: northern ridge of Mt Khelmos; Mt Killini [‘encamped one day and two nights on Kyllene [Killini]’ Letter 538 to Mr Grote (Mineka & Lindley 1972)]; Trikala; Gerancia, towards the Isthmus of Corinth; Megara; bay of Phalerum; returned to Athens and travelled by sea to Smyrna and Constantinople.

Notes on site locations

- Archaeological sites:** Eleusis: in Attica; Epidavros Limeria: in Laconia; Mantinea: in Arcadia; Megara: in western Attica; Mistras: near Sparta in Laconia; Monemvasia [castle]: in eastern Laconia; Nemea: in Corinth; Palamidi: above Nauplion in Argolis; Pylos: western Messinia; Rhamnos: in eastern Attica; Sikyon: in Corinth; Tegea: in Arcadia; Thorikos: in eastern Arcadia; Tiryns: in Argolis;
Villages and towns: Bizanion: Laconia, a village between Levetzova to Xerocampo; Bura: Achaia, between Vostitza and Megaspelion; Dekeleia: in Attica; Githion [Gytheion]: in Laconia; Kalamata: in eastern Messinia; Levetsova: in Laconia; Marcopoulo: in Attica; Mavromati: in Messinia; Megalopolis: central Arcadia; Sounion: southern tip of Attica; Tatoe: Attica; Xerocampo: in Laconia; Xylogaidara: Aetolia-Akarnania, a village on Mt Xerovouna;
Mountains: Ithomi [798 m]: Messinia; Chelmos/Aroania [2341 m]: Achaia; Cyllene/Kyllene [2376 m]: Corinth; Parnassos [2457 m]: Phokis; Oeti [2152m]: Fthiotis; Taygetos [2404 m]: Laconia.

Herbarium Material

BM, CGE [bought from the John Lindley Herbarium by Charles C. Babington (1808-1895)], F, G-BOISS, GH, K, MEL, NA, PH, RTE.

Notes

1. John Stuart Mill to William Hooker, 12 October 1830, English Letters, Directors Correspondence 2, Ref. 135, Royal Botanic Gardens Kew Archives.
2. John Stuart Mill to William Hooker, 26 January 1831, English Letters 1828-31, Directors Correspondence 2, Ref. 134, Royal Botanic Gardens Kew Archives.
3. John Stuart Mill to Jeremy Bentham, 24 March 1843, Bentham Correspondence Vol. 7, no. 2831, India House, Royal Botanic Gardens Kew Archives.
4. Helen Taylor to Joseph Hooker, 27 September 1873, Herbarium Presentations to 1900, vol. 2, no. 5, 527, Royal Botanic Gardens Kew Archives.
5. Helen Taylor to Joseph Hooker, 20 March 1875, English Letters, TAB-TRU 1843-1900, no.24, Royal Botanic Gardens Kew Archives.
6. Joseph Hooker to The Secretary of Office Works, April 7 1875, Herbarium Presentations to 1900, vol. 2, Ref. 527, Royal Botanic Gardens Kew Archives.
7. The Philadelphia Academy of Natural Sciences to Asa Gray, 3 April 1878, Herbarium Presentations to 1900, vol. 2, Ref. 527, Royal Botanic Gardens Kew.
8. Ferdinand Mueller to Joseph Hooker, 23 September 1876, Kew Correspondence, Australia, Mueller 1871-81, f. 183, Royal Botanic Gardens Kew Archives.
9. Helen Taylor to Fanny Stirling, July 6 1862, London School of Economics Archives.

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