

## **The Vegetation of Mount Nyiru (Samburu District, Kenya): A Checklist and Syntaxonomical Survey**

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**THE VEGETATION OF MOUNT NYIRU  
(SAMBURU DISTRICT, KENYA):  
A CHECKLIST AND SYNTAXONOMICAL SURVEY**

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**ABSTRACT**

The forests of Northern Kenya, and particularly of Mt Nyiru, have not been studied in detail, although they are extensive and play an important role in the life of the pastoralist communities surrounding them. Here, we present a checklist of the plants of Mount Nyiru and a syntaxonomic survey of the forest. Four hundred and thirty three taxa belonging to 284 genera and 102 families of higher plants are recorded. Thirty-nine taxa are new for the floral region K1. A syntaxonomic survey of the area shows that most forests belonged to the *Juniperetea procerae* (Montane Xeromorphic Cedar Forests). The *Juniperion procerae*, with the *Faureo salignae-Ilicetum mitis* on the wet mountain tops, and the *Myrsino africanae-Juniperetum procerae* in drier areas, were most commonly encountered. Interestingly, the top of Mt. Nyiru was covered with rather large stands of the *Hagenietea abyssinicae* (Subalpine Elfin Forests) but lacking *Hagenia abyssinica* itself, and extensive *Sinarundinarietea alpinae* (Bamboo Forests).

**INTRODUCTION**

The Northern Region of Kenya occupies nearly 50% of the land surface area of the country, yet it has only received marginal biological attention. For a long time, it was basically only visited by adventurers and big game hunters. The colonial name “Northern Frontier District” clearly illustrates this situation.

It is still sparsely populated, and large parts are only accessible with difficulty. The few scientific studies that have been carried out in the North, mainly focused on its geological features (Shackleton, 1946; Dixey, 1948; Dodson, 1963; Randel, 1967). The first, more comprehensive scientific research project, was the Unesco-IPAL study of the 1970's.

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## Geology

The Northern Region consists of vast alluvial inland plains, inclining from altitudes of about 1200 m to the North of Mt. Kenya to barely 400 m around Lake Turkana. On the Southwest, a chain of mountains consisting of old cristallinic Precambrian basement rocks, mainly extremely durable gneisses and granites, borders the plains. For this reason, the steep Ndoto and Nyiru Ranges, reaching up to 2752 m, were left standing during the different erosion cycles influencing the region (Shackleton, 1946). Next to these, a series of Quarternary volcanic peaks, like Mt. Kulal (2285 m), Mt. Marsabit (1707 m) and the Huri Hills (1479 m), tower over the inland plains. In contrast to the soils of the plains, which consist mainly of Vertisols, Regosols, Lithosols and Cambisols, the mountain slopes are mainly covered with humic Acrisols over the basement formations, and deep, humic Andosols in volcanic areas (Mäckel, 1986; Mäckel & Schultka, 1983; Mäckel & Walter, 1983).

## Climate

According to the climatological classification of Jätzold (1977, 1981), the northern plains are part of the hot, arid tropical climate, with two short sub-humid seasons. Mean monthly temperatures range from 20–26°C in the plains, to 17–19°C in the mountains (Gatab, 1657 m). The average annual rainfall can be as low as 100–150 mm in the Hedad plain and Chalbi desert, rising to 500 mm in the valleys of the Nyiru and Ndoto mountains. In the mountain forest zone, a rainfall of about 1200 mm can be reached (Edwards *et al.*, 1979). The main rainfall is concentrated in two wet seasons, from March to May and from October to December. However, extreme rainfall occurs, e.g. 175 mm in 6 hours in Gatab on Mt. Kulal (Mäckel & Walter, 1983).

## Vegetation

Most mountain areas in Northern Kenya, located between 36°40'–38°00'E and 01°40'–03°40'N, are covered with evergreen montane forest. They owe their existence to the humidity received from mist condensation and frequent cloud formation in the peak areas. Neumann (1898) after visiting the southern Turkana Region wrote: "The western face of Nyiru is.... topped with dark forests...., and here and there hang waterfalls...., filled with the outpourings of the heavy clouds which often cap the summit." Due to their enormous importance for water catchment (Synott, 1979), most mountain areas are gazetted as forest reserves. The extent of these reserves, however, does not really reflect the amount of land actually covered with forest. The Mt. Nyiru forest reserve measures a total of 45,496 ha of which barely 7,890 ha are covered with true forest (Beentje, 1990).

The main reasons for forest destruction in the area are fires caused by honey-hunters and pastoralists, who burn the old grass at the start of the wet season. Others are overgrazing in the forest, and serving the firewood needs of a fast-growing population.

Despite their importance, few studies have been conducted on the montane forests of Northern Kenya. Herlocker (1979) gives some general remarks on the vegetation of the area and Synott (1979) reports briefly on their status, importance and protection. Only Mount Kulal has received marginally more attention (Hepper, 1983), and a plant checklist for this area was produced (Hepper *et al.*, 1981). Based on 20 relevés on this mountain, Schultka & Hilger (1983) distinguish mainly *Olea hochstetteri-Cassipourea malosana* and *Olea africana-Juniperus procera* forest.

Synnot (1979) reports that much less is known on the Nyiru and Ndoto forests than on the Kulal and Marsabit forests. He provides a checklist for the trees and shrubs of Mount Nyiru, containing 35 species. White (1983) includes a short comment on the Marsabit

region of Kenya and its afromontane forests, however mainly based on Synnott's observations from Mt. Kulal and Mt. Marsabit, without specific regard to Mt. Nyiru. Beentje (1990) mentions that the vegetation of Mount Nyiru is "mostly unknown".

Although several collectors have visited the area, like J. Adamson (1947 and 1955), O. Kerfoot (1960), P.G. Archer (1971), J.B.C. Cameron (1972), G. Bono (1977), M. Ichikawa (1977) and M.G. Gilbert, F.N. Gachati and G.W. Gatheri (1978), no concerted effort has been made to compile the existing information.

In the work presented here, the forests of Mt. Nyiru were studied in greater detail. A checklist is produced compiling our own with previous collections, and a detailed description of the vegetation texture of the forests, resulting in their syntaxonomic description according to Barkman *et al.* (1986), is given.

## MATERIALS AND METHODS

### Plant Collections

The majority of plants were collected between 29 March 1995 and 2 April 1995 in the Collector Series Bytebier B., Mwangangi O.M., Kirika P., Waiganjo T., Newton M. & Bussmann R.W., abbreviated to Bytebier *et al.* in the checklist. All specimens were deposited at the East African Herbarium in Nairobi (EA), with duplicates at the Royal Botanic Gardens, Kew (K) and the National Botanic Garden of Belgium, Meise (BR). Bussmann returned several times at a later date and his specimens (Collector Series Bussmann R.W.) are deposited at the Bayreuth University Herbarium. Based on identification lists from the EA archives, we retrieved herbarium specimens previously collected. All specimens were entered in the Brahms (Botanical Research And Herbarium Management System) database.

### Nomenclature

The nomenclature of plant families follows Bamps (1976), and in particular the available parts of the Flora of Tropical East Africa (FTEA, Turril *et al.*, 1952-1998). The nomenclature of genera and species of Pteridophytes, Monocotyledones and Dicotyledones follows the new edition of "Upland Kenya Wild Flowers" (Agnew & Agnew 1994). The genus *Sinarundinaria* was treated according to Chao & Renvoize (1989). Cyperaceae and Juncaceae are named according to Haines & Lye (1983), Gramineae according to Phillips (1995). The nomenclature of trees and shrubs is according to "Kenya Trees, Shrubs and Lianas" (Beentje, 1995).

### Relevés

During 1995–1996, 48 relevés were established and analyzed according to the methods of Braun-Blanquet (1964) and Mueller-Dombois & Ellenberg (1974), as slightly modified by Hammen *et al.* (1989). For a comprehensive description of the sampling methodology see Bussmann (1994), Bussmann & Beck (1995a) and Hammen *et al.* (1989).

## RESULTS AND DISCUSSION

### Higher plants checklist

The checklist presented in Appendix 1 is based on the following collections and a few scattered collections leading to a total of 679 specimens, plus a few sight records by Bussmann RW.

Adamson J	28 specimens	1947 & 1955/56
Archer PG	20 specimens	1971
Bono G	39 specimens	1977
Bussmann RW	45 specimens	1995/96
Bytebier <i>et al.</i>	325 specimens	1995
Cameron JBC	37 specimens	1972
Gilbert MG, Gachati FN and Gatheri GW	18 specimens	1978
Ichikawa M	5 specimens	1977
Kerfoot O	156 specimens	1960

A total of 433 taxa belonging to 284 genera and 102 families are now on record. Amongst the 433 taxa there are 40 pteridophytes, 2 gymnosperms, 335 dicots and 56 monocots. Thirty-nine taxa from our own collections were previously not recorded from the floral region K1. They are indicated in the checklist as First Record for K1. The families best represented were Compositae (37 species), Leguminosae (34 species), Gramineae (20 species), Labiatae (18 species), Rubiaceae (16 species), Adiantaceae (12 species), Acanthaceae (12 species), Malvaceae (12 species) and Aspleniaceae (11 species).

### Forest types on Mt. Nyiru

A detailed phytosociological description of the forests of Mt. Nyiru, as well as other Northern Kenyan forest areas is included in Bussmann (in press), thus we present here an abbreviated floristical description of the forest types encountered.

#### *Montane Xeromorphic Cedar Forests (Juniperetea /-etalia BUSSMANN 1994)*

In the dry regions of Northern Kenya, closed forests are always restricted to mountain areas and hilltops, where mist condensation leads to more humid conditions.

All forests encountered clearly belong to the Montane Xeromorphic Cedar Forests. Species such as *Geranium arabicum* and *Achyranthes aspera* were commonly growing in the ground layer, together with the grass *Brachypodium flexum*. Of the differential species of the Cedar-forests, *Juniperus procera* itself was common on Nyiru. In the herbal vegetation the tall grass *Stipa dregeana*, as well as *Sanicula elata*, were encountered regularly.

Many forests of the dry Kenyan North belong to the pure Cedar forests (*Juniperion procerae* BUSSMANN 1994). The *Myrsine-Juniperus* forest (*Myrsino africanae-Juniperetum procerae* BUSSMANN 1994), with its pronounced fire-cycle, as the most typical association of the alliance, occurred less often; and the *Faurea-Ilex* forest (*Faureo salignae-Ilicetum mitis* BUSSMANN 1994) was the association found most commonly. Of the characteristic Cedar forest species, the East African Olive, *Olea europaea* ssp. *africana* was found only in few areas, particularly on southern Mt. Nyiru, forming sometimes almost exclusively the about 10 m high canopy. Other differential species were rarely found, and only in some places *Rapanea melanophloeos*, with its dark-green, shiny

leaves appeared in the forest. The grass *Ehrharta erecta*, differential species for the Ehrhartae-Juniperetum procerae BUSSMANN 1994, occurred in many places, forming partly dense tufts on the forest floor on Mt. Nyiru. The floristic composition of the forests, however, indicated without doubt that most stands belonged to the pure Faureo-salignae-Ilicetum mitis BUSSMANN 1994.

This association, first described from the northeastern slopes of Mt. Kenya (Bussmann & Beck, 1995a), clearly dominated most of the mountain areas studied. In the type locality, forests of this type were encountered only as remnants on very steep slopes with relatively shallow soils, whereas in the North in a very striking contrast, the Faureo-Ilicetum was encountered under almost all slope conditions. Only the Proteacean *Faurea saligna*, with its leathery leaves shining red in the green canopy, grew with high abundance, often dominating the canopy, while *Ilex mitis* was completely absent. In contrast to the lack of differential species, the accompanying flora encountered was very characteristic, with e.g. *Piper capense*, the leathery fern *Arachnoides foliosa* or the stinging nettle *Laportea alatipes*, among many other species, the typical companions of the association were found abundantly. Nevertheless, in comparison to the stands on Mt. Kenya, the floristic composition of the Faureo-Ilicetum showed many differences, especially with regard to the shrub stratum, and therefore the northern stands have to be regarded as a distinct subassociation of their own, differentiated by the very abundant occurrence of *Xymalos monospora*, often forming a dense shrub layer, a fact which was never observed in the typical Faureo-Ilicetum. In addition, *Xymalos*, normally found only as a small shrub, reaches up into the lower canopy in many places forming a second, lower tree stratum of its own. In the shrub layer *Brucea antidysenterica* and the climbing *Clerodendrum johnstonii*, as well as *Clausena anisata*, were also encountered as differential species. The ferns *Pteris quadriaurita* and *Doryopteris kirkii*, together with the otherwise rare liana *Clematis brachiata*, and especially the Acanthacean *Dicliptera colorata*, in places covering large areas of the forest floor, are also differential, and so are the epiphytic orchids *Polystachya piersii* and *Aerangis thomsonii*, the latter often dangling in carpets from its sustaining branches. The most striking feature of these forests however, is the abundance of very old, and therefore extremely tall and thick specimens, of *Faurea saligna*, some of which reached a girth of more than 2 m at breast height indicating, that these forests have never been disturbed by logging.

Differences in humidity lead to two variants of these *Xymalos*-dominated forests. The most commonly encountered wet variety, growing mainly on higher altitudes, clearly receives more moisture, which was shown by the many fern species in the undergrowth. Of them, *Amauropeltis bergiana* and *Stenogramma pozoi* were regarded as differential species. Further differential taxa, all requiring high humidity were the creeping *Droguetia iners* and *Crassula alsinoides*, *Drymaria cordata*, *Dicrocephala integrifolia*, together with the Urticacean *Pilea johnstonii*, and *Aneilema pedunculosum*. In the higher strata *Solanum schumannianum* and the tree *Schefflera volkensii* appeared. Of the companions, the rare *Tarenna graveolens*, *Chionanthus battiscombei* and *Turraea holstii*, appearing mainly in the shrub stratum, as well as *Pavetta gardeniifolia* deserve special note.

At the lower limit of the *Faurea-Ilex* forests, in transition to the *Myrsine-Juniperus-Cadia* forest (Myrsino-Junipertum cadietosum purpureae, Bussmann, in press), almost all of the less drought resistant species, especially Pteridophytes, disappeared due to the much drier conditions. Whereas in the previous variant the forest floor was always covered with living herbs and also with an often dense grass layer even at the peak of the dry season, in the lower forests the ground was often found bare, as all vegetation had disappeared due to

the drought. Differential species encountered were the tall *Plectranthus barbatus*, *Stellaria sennii* and the Cyperacean *Schoenoxiphium lehmannii*. Because livestock often grazes these areas at the beginning of the dry season, weed-like species like *Solanum incanum*, *Pupalia lappacea* and *Pteridium aquilinum* (the latter being an indicator of fire), also occurred as differential species. Important companions were *Crassocephalum montuosum*, *Desmodium repandum*, *Hypoestes forskahlii*, *Leonotis nepetifolia*, *Microglossa pyridifolia* and *Mikaniopsis bambuseti*.

The drier lower slopes of Mt. Nyiru were covered by a vegetation belonging to the *Myrsino africanae-Juniperetum procerae* BUSSMANN 1994, forming the transition zone to the savanna areas. Fires occur regularly in this area. They are lit by pastoralists to improve the grass growth before the start of the rains or by honey hunters smoking out bees. At long intervals they also occur naturally. Therefore the Myrsino-Juniperetum shows the fire cycle of the Cedar-forests best (Bussmann & Beck, 1995b). Consequently *Myrsine africana*, a differential species for these forests, and one particularly indicating the influence of fire, was found with very high cover/abundance in most areas, often forming a second, lower shrub stratum. On Mt. Nyiru, *Juniperus procera* occurred with high cover also. Of the characteristic species, only *Rhamnus prinoides* was found although much less abundant. Interestingly, *Nuxia congesta* appeared often with high cover in the tree stratum, and the Acanthacean *Justicia striata* formed patches on the forest floor. The high abundance of *Teclea nobilis* in the shrub layer and the lower tree stratum is also worth mentioning. The presence of a rather different flora, in comparison to other areas, e.g. Mt. Kenya (Bussmann & Beck, 1995a), description of a new subassociation (Bussmann, in press).

In transition to a dense thorny bushland, formed mainly by species of the genera *Commiphora*, *Grewia* and partly *Acacia*, this vegetation type was encountered on the steep rocky lower slopes of Mt. Nyiru. With an often very dry ground layer, leaving many areas of the rocks exposed, forests of this type showed a very open appearance and due to the frequent fires even the higher shrub stratum had been nearly completely destroyed. Many *Juniperus* trees in these areas were found dead or dying, and due to the frequent fires young specimens were rarely observed. In the open shrub stratum, *Codia purpurea* and *Vangueria apiculata* occurred as differential species of this subassociation, together with the small tree *Cordia monoica* in the canopy. The set of differential species was completed by a high number of drought resistant ferns, especially of the genus *Cheilanthes*, growing among the rocks. Namely *Pellea alchemilloides*, *Cheilanthes bergiana*, *C. multifida*, *C. tecta* and *C. hirta* were encountered, whereas the very rare *Asplenium trichomanes* occurred on some high, shady cliffs. The companions, the Euphorbiacean *Croton megalocarpus* in the canopy and the Rutacean *Teclea simplicifolia* in the shrub stratum, deserve special note, as they showed clear links to the *Brachylaenion huillensis* BUSSMANN 1994, an alliance mainly found in Central and Southern Kenya. *Scadoxus multiflorus*, with its large bright-red inflorescence was also found as a companion, among many other species.

#### *Subalpine Elfin forests (Hagenietea abyssinicae BUSSMANN 1994.)*

Large grassy clearings were only found on top of Mt. Nyiru. Many huts used by Samburu pastoralists during the dry season indicated that these areas are heavily grazed. At the borders of the grasslands, and partly as islands in-between, dense thickets of St. John's Wort (*Hypericum revolutum*) were growing together with young specimens of *Juniperus procera*. The high cover/abundance of *Hypericum* indicated that these forests belong to the *Hagenio-Hypericum* forest (Hagenio abyssinicae-Hypericetum revoluti BUSSMANN 1994).

Whether *Hagenia abyssinica* itself has ever grown in these areas remains an enigma as no koso trees were found. The high cover of young *Juniperus* trees, all of the same age, has to be regarded as a sign of a very large fire about 10 years ago (judged by the size of the trees). Only few dead specimens of old Cedars were found. It is assumed that in the successional process the Hagenio-Hypericetum on Nyiru will probably be replaced by the Myrsino-Juniperetum, especially with regard to the more frequent use of the area as dry season pasture, leading to more frequent burning.

At present, despite the growing influence of *Juniperus*, the Thymelaeaceae *Gnidia glauca*, with its yellow flowers appearing in dense clusters in the wet season, still dominates the canopy of these forests, forming often closed stands about 8 m tall. Therefore, the topmost forests of Mt. Nyiru clearly belong to the *Gnidietum glaucae* BUSSMANN 1994.

#### *Montane Bamboo Forests (Sinarundinarietea alpinae BUSSMANN 1994)*

The East African Bamboo, *Sinarundinaria alpina*, is known to cover vast areas especially of the wet southern and south-eastern slopes of Mt. Kenya and the Aberdare and Mau Ranges in Central Kenya. In other areas of the country, however, the species occurs only rarely and in Northern Kenya bamboo is nearly absent. In some areas of Nyiru, probably in places with the highest amount of condensing mist, *Sinarundinaria alpina* was encountered forming dense stands up to 6–8 m tall. These bamboo forests were very similar to the ones described from Western Mt. Kenya (Bussmann & Beck, 1995a), with *Podocarpus latifolius* frequently protruding from the closed bamboo stands. All stands studied were very dense, with only a small amount of light reaching the ground, which was therefore often bare of vegetation. Trails of large game, e.g. elephants and buffaloes, very frequent in other areas where bamboo grows, were not found on Nyiru. This made the bamboo forests nearly impenetrable. The presence of *Sinarundinaria* on Mt. Nyiru has to be regarded as of special importance with respect to the biogeography of the species. The Nyiru population can be interpreted as a link between the main growing area of the species and the stands on the southern slopes of the Bale mountains in Southern Ethiopia, about 500 km further North (Bussmann, 1997).

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## APPENDIX 1: Checklist of the plants of Mount Nyiru

### PTERIDOPHYTA

#### ACTINIOPTERIDACEAE

*Actiniopteris semiflabellata* Pic.Serm.  
Bytebier B et al. 344; Bussmann R 9743  
1600–2450 m

1600–2450 m

#### ASPLENIACEAE

*Asplenium abyssinicum* Fée  
Cameron JBC 149  
2439–2439 m  
*Asplenium adiantum-nigrum* L.  
Cameron JBC 133  
2515–2515 m  
*Asplenium aethiopicum* (Burm.f.) Bech.  
Bytebier B et al. 72; Gilbert MG, Gachathi FN & Gatheri GW 5193; Cameron JBC 146; Bussmann R 9698  
1600–2450 m  
*Asplenium elliotii* C.H.Wright  
Bytebier B et al. 17A; Bussmann R 9701  
2400–2450 m  
*Asplenium erectum* Willd. var.  
*usambarensense* (Hieron.) Schelpe  
Bytebier B et al. 38, 251; Bussmann R 9708  
2200–2450 m  
*Asplenium friesiorum* C.Chr.  
Bytebier B et al. 6, 17B; Cameron JBC 144; Bussmann R 9715  
2286–2450 m  
*Asplenium loxoscapoides* Baker  
Bussmann R 9740  
2350–2550 m  
*Asplenium monanthes* L.  
Bytebier B et al. 73, Cameron JBC 137; Bussmann R 9704  
2134–2450 m  
*Asplenium strangeanum* Pic.Serm.  
Bytebier B et al. 250; Cameron JBC 136  
2200–2286 m  
*Asplenium theciferum* (Kunth) Mett.  
Bytebier B et al. 74; Cameron JBC 134; Bussmann R 9706  
2134–2450 m  
*Asplenium trichomanes* L.  
Cameron JBC 135; Gilbert MG, Gachathi FN & Gatheri GW 5195; Bussmann R 9710  
1600–2450 m

*Pellaea adiantoides* (Willd.) J.Sm.  
Bussmann R 9797  
2350–2550 m  
*Pellaea calomelanos* (Sw.) Link  
Bytebier B et al. 339  
1600–1600 m  
*Pellaea longipilosa* Bonap.  
Bytebier B et al. 327; Bussmann R 9822

**DENNSTAEDIACEAE**

*Hypolepis goetzei* Reimers  
Cameron JBC 139  
2134–2134 m  
*Pteridium aquilinum* (L.) Kuhn  
Bytebier B *et al.* 194  
2500–2500 m

**DRYOPTERIDACEAE**

*Arachniodes foliosa* (C.Chr.) Schelpe  
Cameron JBC 130  
2439–2439 m  
*Polystichum fuscopaleaceum* Alston  
Bytebier B *et al.* 50; Cameron JBC 147;  
Bono G 23; Bussmann R 9803, 9796  
2400–2450 m

**POLYPODIACEAE**

*Loxogramme abyssinica* (Baker)  
M.G.Price  
Bytebier B *et al.* 46  
2400–2400 m  
*Pleopeltis macrocarpa* (Bory ex Willd.)  
Kaulf.  
Cameron JBC 131, 145  
2439–2439 m

**PTERIDACEAE**

*Pteris catoptera* Kunze  
Bytebier B *et al.* 69  
2400–2400 m  
*Pteris dentata* Forssk.  
Bono G 24, 38, 211; Cameron JBC 143,  
152  
1219–2439 m  
*Pteris quadriaurita* Retz.  
Bussmann R 9814  
2350–2550 m

**SCHIZAEACEAE**

*Mohria vestita* Baker  
Bytebier B *et al.* 254  
2200–2200 m  
First record for K1

**SELAGINELLACEAE**

*Selaginella dregei* (C.Presl) Hieron.  
Alexander EAH 11859

**THELYPTERIDACEAE**

*Amauropelta bergiana* (Schltdl.) Holttum  
Bussmann R 9799  
2350–2550 m  
*Amauropelta oppositiformis* (C.Chr.)  
Holttum  
Bytebier B *et al.* 222  
2500–2500 m  
First record for K1  
*Stegnogramma pozoi* (Lag.) K.Iwats.  
Bytebier B *et al.* 48; Bussmann R 9791,  
9792  
2400–2450 m

**WOODSIACEAE**

*Cystopteris diaphanum* (Bory) Blasdell  
Bytebier B *et al.* 25; Cameron JBC 150  
2400–2439 m  
*Cystopteris fragilis* (L.) Bernh.  
Bussmann R 9795  
2350–2550 m

**GYMNOSPERMAE****CUPRESSACEAE**

*Juniperus procera* Endl.  
Adamson J 393, Adamson J B 6162;  
Bytebier B *et al.* 188  
2439–2500 m

**PODOCARPACEAE**

*Podocarpus latifolius* (Thunb.) Mirb.  
Bytebier B *et al.* 96; Cameron JBC 128;  
Adamson J 392  
2439–2500 m

**ANGIOSPERMAE****DICOTYLEDONAE****ACANTHACEAE**

*Acanthopale pubescens* C.B.Clarke  
Kerfoot O 2067  
2439–2439 m  
*Crossandra massaica* Mildbr.  
Bytebier B *et al.* 323  
1600–1600 m  
*Dicliptera colorata* C.B.Clarke  
Bussmann R 9786  
2350–2550 m

<i>Dicliptera laxata</i> C.B.Clarke	<i>Sericocomopsis hildebrandtii</i> Schinz
Kerfoot O 2068	Kerfoot O 2080
2743–2743 m	2713–2713 m
<i>Dyschoriste radicans</i> Nees	
Bytebier B <i>et al.</i> 189	<b>ANACARDIACEAE</b>
2500–2500m	<i>Rhus natalensis</i> Krauss
<i>Hypoestes forskahlii</i> (Vahl) R.Br.	Bytebier B <i>et al.</i> 278; Kerfoot O 1948,
Bytebier B <i>et al.</i> 269	1949, 1950
Kerfoot O 2001	2134–2350 m
2350–2439m	<i>Rhus ruspolii</i> Engl.
<i>Hypoestes triflora</i> (Forssk.) Roem. &	Bytebier B <i>et al.</i> 276; Kerfoot O 1945
Schult.	2134–2350 m
Bytebier B <i>et al.</i> 210	
Kerfoot O 2076	<b>APOCYNACEAE</b>
2439–2500m	<i>Carissa edulis</i> (Forssk.) Vahl
<i>Isoglossa gregorii</i> (S.Moore) Lindau	Kerfoot O 2023
Bytebier B <i>et al.</i> 58	2134–2134 m
Kerfoot O 2069	
2400–2743m	<b>ARALIACEAE</b>
<i>Justicia glabra</i> Koen. ex Roxb.	<i>Cussonia holstii</i> Engl. var. <i>holstii</i>
Bytebier B <i>et al.</i> 312	Bytebier B <i>et al.</i> 262; Kerfoot O 1942;
1600–1600m	Bono G 323
<i>Justicia lorata</i> Ensermu	2134–2350 m
Bytebier B <i>et al.</i> 341, 350	<i>Schefflera volkensii</i> (Engl.) Harms
1600–1600m	Bussmann R, Sight record
First record for K1	2350–2550 m
<i>Justicia striata</i> (Kl.) Bullock	
Bussmann R, Sight record	<b>ASCLEPIADACEAE</b>
2350–2550m	<i>Ceropegia</i>
<i>Thunbergia alata</i> Bojer ex Sims	Bytebier B <i>et al.</i> 201
Bytebier B <i>et al.</i> 258; Kerfoot O 2090	2500–2500 m
2350–2591m	<i>Ceropegia ballyana</i> Bullock
	Bytebier B <i>et al.</i> 249
<b>AMARANTHACEAE</b>	2200–2200 m
<i>Achyranthes aspera</i> L.	First record for K1
Bytebier B <i>et al.</i> 44	<i>Cynanchum altiscandens</i> K.Schum.
2400–2400m	Bytebier B <i>et al.</i> 263
<i>Celosia anthelmintica</i> Asch.	2350–2350 m
Kerfoot O 2024	First record for K1
2439–2439m	<i>Gomphocarpus fruticosus</i> (L.) W.T.Aiton
<i>Celosia schweinfurthiana</i> Schinz	Bytebier B <i>et al.</i> 240; Kerfoot O 1979
Bytebier B <i>et al.</i> 309	2200–2591 m
1600–1600m	<i>Pergularia daemia</i> (Forssk.) Blatt. &
<i>Cyathula polycephala</i> Baker	MacOwan
Bytebier B <i>et al.</i> 66	Kerfoot O 2021; Bono G 33
2400–2400m	1800–1829 m
First record for K1	<i>Periploca linearifolia</i> Quart.-Dill. &
<i>Pupalia lappacea</i> (L.) A.Juss.	A.Rich.
Bytebier B <i>et al.</i> 248	Kerfoot O 1998
2200–2200m	2439–2439 m

***Secamone punctulata* Decne.**

Bytebier B *et al.* 294, 363  
1600–1600 m

**BALSAMINACEAE**

*Impatiens hochstetteri* Warb.  
Bussmann R 9785  
2350–2550 m  
*Impatiens meruensis* Gilg  
Cameron JBC 138  
2286–2286 m  
*Impatiens meruensis* Gilg ssp.  
*septentrionalis* Grey-Wilson  
Bytebier B *et al.* 51; Kerfoot O 2082  
2400–2743 m  
*Impatiens sodenii* Engl.  
Bytebier B *et al.* 325; Kerfoot O 2083;  
Bono G 202; Adamson TG 18; Bussmann  
R 9783  
1600–2743 m

**BEGONIACEAE**

*Begonia*  
Bytebier B *et al.* 324  
1600–1600 m

**BERBERIDACEAE**

*Berberis holstii* Engl.  
Kerfoot O 1939  
2591–2591 m

**BORAGINACEAE**

*Cordia monoica* Roxb.  
Kerfoot O 1938; Bono G 26  
2134–2300 m  
*Cynoglossum coeruleum* A.DC.  
Bytebier B *et al.* 41, 176  
2400–2500 m  
*Cynoglossum coeruleum* A.DC. ssp.  
*johnstonii* (Baker) Verdc.  
Kerfoot O 2095  
2743–2743 m  
*Lithospermum afromontanum* Weim.  
Kerfoot O 2006  
2286–2286 m

**CALLITRICHACEAE**

*Callitricha stagnalis* Scop.  
Bytebier B *et al.* 231; Bono G 208  
2450–2500 m

**CAMPANULACEAE**

*Campanula edulis* Forssk.  
Archer PG 695; Kerfoot O 2097  
2286–2743 m  
*Wahlenbergia abyssinica* (A.Rich.) Thulin  
ssp. *abyssinica*  
Bytebier B *et al.* 92; Cameron JBC 108;  
Kerfoot O 2063; Adamson J 541;  
Bussmann R 9778  
2134–2743 m  
*Wahlenbergia capillacea* (L.f.) A.DC. ssp.  
*tenuior* (Engl.) Thulin  
Bytebier B *et al.* 93  
2500–2500 m  
*Wahlenbergia lobelioides* (L.f.) A.DC. ssp.  
*nutabunda* (Guss.) Murb.  
Archer PG 697  
2286–2286 m  
*Wahlenbergia virgata* Engl.  
Bytebier B *et al.* 77; Adamson J 540;  
Archer PG 694  
2400–2439 m

**CAPPARACEAE**

*Capparis tomentosa* Lam.  
Bytebier B *et al.* 334; Kerfoot O 1985  
1600–2591 m  
*Cleome*  
Kerfoot O 2062  
2134–2134 m  
*Cleome usambarica* Pax  
Bytebier B *et al.* 318  
1600–1600 m  
*Crateva adansonii* DC.  
Kerfoot O 1990  
1524–1524 m  
*Gynandropsis gynandra* (L.) Briq.  
Bytebier B *et al.* 288  
2350–2350 m  
*Maerua angolensis* DC.  
Kerfoot O 1931  
1981–1981 m  
*Maerua triphylla* A.Rich.  
Bytebier B *et al.* 345  
1600–1600 m  
*Thylachium africanum* Lour.  
Kerfoot O 1958  
2439–2439 m

**CARYOPHYLLACEAE**

- Cerastium indicum* Wight & Arn.  
Bytebier B et al. 164; Kerfoot O 2073  
2500–2743 m  
*Drymaria cordata* (L.) Willd. ex Roem. &  
Schult.  
Bytebier B et al. 1; Kerfoot O 2096  
2400–2743 m  
*Pollichia campestris* Aiton  
Bytebier B et al. 238  
Kerfoot O 2099  
2200–2743 m  
*Silene burchellii* Otth ex DC.  
Adamson J 552  
2743–2743 m  
*Silene macrosolen* Steud. ex A.Rich.  
Kerfoot O 2074  
2743–2743 m  
*Stellaria sennii* Chiov.  
Bytebier B et al. 215  
2500–2500 m

**CELASTRACEAE**

- Maytenus heterophylla* (Eckl. & Zeyh.)  
N.Robson  
Bytebier B et al. 279  
2350–2350 m  
*Mystroxylon aethiopicum* (Thunb.) Loes.  
Bytebier B et al. 319  
1600–1600 m

**CHENOPODIACEAE**

- Chenopodium schraderianum* Schult.  
Bytebier B et al. 289  
2350–2350 m

**COMPOSITAE**

- Adenostemma perrottetii* DC.  
Gilbert MG, Gachathi FN & Gatheri GW  
5210; Kerfoot O 2056  
1350–2743 m  
*Berkheya spekeana* Oliv.  
Archer PG 705  
2560–2560 m  
*Bidens flagellata* (Sherff) Mesfin  
Bytebier B et al. 213  
2500–2500 m  
*Bidens hildebrandtii* O.Hoffm.  
Bytebier B et al. 317  
1600–1600 m

*Bidens kilimandscharica* (O.Hoffm.)

- Sherff  
Kerfoot O 2057  
2439–2439 m  
*Bothriocline longipes* (Oliv. & Hiern)  
N.E.Br.  
Bytebier B et al. 20; Kerfoot O 2049  
2134–2400 m  
*Carduus nyassanus* (S.Moore) R.E.Fr.  
Bytebier B et al. 232  
2500–2500 m  
First record for K1  
*Cineraria deltoidea* Sond.  
Kerfoot O 2046  
2134–2134 m  
*Conyza newii* Oliv. & Hiern  
Bytebier B et al. 19; Kerfoot O 2043  
2400–2439 m  
*Conyza steudelii* Sch.Bip. ex A.Rich.  
Bytebier B et al. 224  
2500–2500 m  
*Conyza stricta* Willd.

- Bytebier B et al. 22, 83, 197; Kerfoot O  
2045  
2134–2500 m  
*Conyza sumatrensis* (Retz.) E.Walker  
Bytebier B et al. 225  
2500–2500 m  
*Crassocephalum montuosum* (S.Moore)  
Milne-Redh.  
Bussmann R, Sight record  
2350–2550 m  
*Dichrocephala chrysanthemifolia* (Blume)  
DC.  
Kerfoot O 2052  
2591–2591 m

- Dichrocephala integrifolia* (L.f.) Kuntze  
Bytebier B et al. 35  
2400–2400 m  
*Emilia discifolia* (Oliv.) C.Jeffrey  
Bytebier B et al. 245; Kerfoot O 2055;  
Gilbert MG, Gachathi FN & Gatheri GW  
5198  
1600–2439 m  
*Emilia somalensis* (S.Moore) C.Jeffrey  
Bytebier B et al. 80  
2500–2500 m  
*Gerbera viridifolia* (DC.) Sch.Bip.  
Bytebier B et al. 178  
2500–2500 m

<i>Gnaphalium rubriflorum</i> Hilliard	2500–2500 m
Bytebier B <i>et al.</i> 179, 226	
2500–2500 m	
<i>Gutenbergia cordifolia</i> Benth. ex Oliv.	2500–2500 m
Bytebier B <i>et al.</i> 287	First record for K1
2350–2350 m	
<i>Helichrysum argyranthum</i> O.Hoffm.	<i>Vernonia galamensis</i> (Cass.) Less. ssp. <i>nairobiensis</i> M.G.Gilbert
Adamson J 564	Bytebier B <i>et al.</i> 196
2743–2743 m	2500–2500 m
<i>Helichrysum forskahlii</i> (J.F.Gmel.)	<i>Vernonia hymenolepis</i> A.Rich.
Hilliard & B.L.Burtt var. <i>forskahlii</i>	Kerfoot O 2041; Bono G 20
Bytebier B <i>et al.</i> 62, 87; Adamson J 556	2400–2439 m
2400–2500 m	<i>Vernonia syringifolia</i> O.Hoffm.
<i>Helichrysum kilimanjari</i> Oliv.	Bytebier B <i>et al.</i> 9, 169
Bytebier B <i>et al.</i> 26	2400–2500 m
2400–2400 m	First record for K1
First record for K1	
<i>Helichrysum nudifolium</i> (L.) Less. var. <i>nudifolium</i>	<b>CONVOLVULACEAE</b>
Bytebier B <i>et al.</i> 204; Archer PG 702;	<i>Ipomoea spathulata</i> Hallier f.
Bono G 213	Bytebier B <i>et al.</i> 300
2286–2500 m	1600–1600 m
<i>Helichrysum odoratissimum</i> (L.) Less.	<i>Ipomoea wightii</i> (Wall.) Choisy
Bussmann R 9759	Bytebier B <i>et al.</i> 273
2350–2550 m	2350–2350 m
<i>Hippocratea diffusum</i> (O.Hoffm.) Roessler	
Bytebier B <i>et al.</i> 239, 362	<b>CRASSULACEAE</b>
1600–2200 m	<i>Crassula alba</i> Forssk.
<i>Kleinia odora</i> (Forssk.) DC.	Bytebier B <i>et al.</i> 217; Archer PG 699
Gilbert MG, Gachathi FN & Gatheri GW	2286–2500 m
5187	<i>Crassula alsinoides</i> (Hook.f.) Engl.
1350–1350 m	Kerfoot O 2091
<i>Laggera elatior</i> R.E.Fr.	2743–2743 m
Bytebier B <i>et al.</i> 57	<i>Crassula nodulosa</i> Schönl. var. <i>nodulosa</i>
2400–2400 m	Archer PG 698; Kerfoot O 2025
First record for K1	2134–2286 m
<i>Microglossa pyrifolia</i> (Lam.) Kuntze	<i>Crassula schimperi</i> Fisch. & C.A.Mey.
Bytebier B <i>et al.</i> 8; Kerfoot O 2047	ssp. <i>schimperi</i>
2134–2450 m	Bytebier B <i>et al.</i> 85, 243
<i>Mikaniopsis bambuseti</i> (R.E. Fries)	2200–2500 m
C.Jeffrey Bussmann R, Sight record	<i>Kalanchoe citrina</i> Schweinf.
2350–2550 m	Bytebier B <i>et al.</i> 340, 356; Kerfoot O 2086
<i>Osteospermum vaillantii</i> (Decne.) Norl.	1600–2134 m
Kerfoot O 2054	<i>Kalanchoe densiflora</i> Rolfe var. <i>densiflora</i>
2439–2439 m	Bytebier B <i>et al.</i> 220; Kerfoot O 2087
<i>Senecio hadiensis</i> Forssk.	2500–2743 m
Bono G 330	
1700–1700 m	<b>CRUCIFERAE</b>
<i>Senecio syringifolius</i> O.Hoffm.	<i>Arabis glabra</i> (L.) Bernh.
Bytebier B <i>et al.</i> 180	Bytebier B <i>et al.</i> 175
	2500–2500 m

First record for K1	Bytebier B <i>et al.</i> 260; Kerfoot O 1995
<i>Cardamine africana</i> L.	2134–2350 m
Archer PG 690	<i>Bridelia micrantha</i> (Hochst.) Baill.
2439–2439 m	Ichikawa M 906; Kerfoot O 1943
<b>CUCURBITACEAE</b>	1768–1829 m
<i>Gerrardanthus lobatus</i> (Cogn.) C.Jeffrey	<i>Clutia abyssinica</i> Jaub. & Spach var. <i>abyssinica</i>
Bytebier B <i>et al.</i> 307	Bytebier B <i>et al.</i> 193; Bono G 142
1600–1600 m	1900–2500 m
<i>Lagenaria</i>	<i>Croton dichogamus</i> Pax
Bytebier B <i>et al.</i> 355	Bono G 27
1600–1600 m	1800–1800 m
<i>Lagenaria abyssinica</i> (Hook.f.) C.Jeffrey	<i>Croton megalocarpus</i> Hutch.
Bytebier B <i>et al.</i> 52	Kerfoot O 1961
2400–2400 m	2134–2134 m
First record for K1	<i>Euphorbia</i>
<b>DIPSACACEAE</b>	Bytebier B <i>et al.</i> 361
<i>Dipsacus pinnatifidus</i> A.Rich.	1600–1600 m
Bytebier B <i>et al.</i> 184; Archer PG 704;	<i>Euphorbia brevicornu</i> Pax
Kerfoot O 2003; Bussmann R 9821	Bytebier B <i>et al.</i> 56
2286–2500 m	2400–2400 m
<i>Scabiosa columbaria</i> L.	First record for K1
Archer PG 696; Cameron JBC 123;	<i>Euphorbia depauperata</i> A.Rich. var. <i>depauperata</i>
Adamson J 555; Kerfoot O 2075	Bytebier B <i>et al.</i> 170
2286–2743 m	2500–2500 m
<b>ERICACEAE</b>	<i>Euphorbia nyikae</i> Pax var. <i>nyikae</i>
<i>Agauria salicifolia</i> (Lam.) Oliv.	Bytebier B <i>et al.</i> 359
Kerfoot O 1970	1600–1600 m
2743–2743 m	First record for K1
<i>Erica arborea</i> L.	<i>Phyllanthus fischeri</i> Pax
Bytebier B <i>et al.</i> 171 ; Kerfoot O 2018;	Kerfoot O 2017
Bono G 214; Cameron JBC 118	2134–2134 m
2134–2500 m	<i>Phyllanthus sepialis</i> Müll.Arg.
<i>Erica mannii</i> (Hook.f.) Beentje ssp. <i>usambarensis</i> (Alm & T.C.E.Fr.) Beentje	Bono G 122
Bytebier B <i>et al.</i> 187	1400–1400 m
2500–2500 m	
First record for K1	
<b>EUPHORBIACEAE</b>	
<i>Acalypha fruticosa</i> Forssk. var. <i>eglandulosa</i> Radcl.-Sm.	<b>FLACOURTIACEAE</b>
Kerfoot O 1994	<i>Dovyalis abyssinica</i> (A.Rich.) Warb.
2286–2286 m	Bytebier B <i>et al.</i> 158; Kerfoot O 1965
<i>Acalypha fruticosa</i> Forssk. var. <i>fruticosa</i>	2439–2500 m
Bono G 121	<i>Trimeria grandifolia</i> (Burkill) Sleumer ssp. <i>tropica</i>
1400–1400 m	Bono G 39
<i>Acalypha volvensii</i> Pax	2400–2400 m
	<b>GERANIACEAE</b>
	<i>Geranium aculeolatum</i> Oliv.
	Kerfoot O 2038
	2439–2439 m

<i>Geranium arabicum</i> Forssk.	Kerfoot O 2089; Gilbert MG, Gachathi FN & Gatheri GW 5214
Bytebier B <i>et al.</i> 190A; Kerfoot O 2036;	
Bono G 201	1350–2743 m
2134–2500 m	
<i>Pelargonium alchemilloides</i> (L.) Ait.f. ssp. <i>multibracteatum</i> (A.Rich.) Kokwaro	<i>Leucas urticifolia</i> (Vahl) R.Br. var. <i>annulata</i> Sebald
Bytebier B <i>et al.</i> 244; Bono G 205;	Bytebier B <i>et al.</i> 283
Kerfoot O 2039; Bussmann R 9757	2350–2350 m
2200–2450 m	
<i>Pelargonium whytei</i> Baker	<i>Ocimum suave</i> Willd.
Kerfoot O 2037	Bytebier B <i>et al.</i> 281; Kerfoot O 2002
2439–2439 m	2350–2439 m
<b>GUTTIFERAE</b>	<i>Plectranthus barbatus</i> Andr.
<i>Garcinia livingstonei</i> T.Anderson	Kerfoot O 1992
Bytebier B <i>et al.</i> 337	2134–2134 m
1600–1600 m	
<i>Hypericum kiboense</i> Oliv.	<i>Plectranthus edulis</i> (Vatke) Agnew
Adamson J 558	Bytebier B <i>et al.</i> 233
2743–2743 m	2500–2500 m
<i>Hypericum revolutum</i> Vahl	First record for K1
Bytebier B <i>et al.</i> 191; Kerfoot O 1932;	<i>Plectranthus grandicalyx</i> E.A.Bruce
Adamson J 562; Cameron JBC 117	Bytebier B <i>et al.</i> 84
2500–2743 m	2500–2500 m
<i>Hypericum roeperanum</i> A.Rich.	<i>Plectranthus igniriaus</i> (Schweinf.) Agnew
Kerfoot O 1934	Gilbert MG, Gachathi FN & Gatheri GW 5216
2439–2439 m	1650–1650 m
	<i>Plectranthus sylvestris</i> Gürke
<b>HALORAGACEAE</b>	Bytebier B <i>et al.</i> 70
<i>Gunnera perpensa</i> L.	2400–2400 m
Bytebier B <i>et al.</i> 230; Bussmann R 9788	<i>Salvia nilotica</i> (Juss.) Jacq.
2450–2500 m	Bytebier B <i>et al.</i> 23; Kerfoot O 2066
	2400–2439 m
<b>LABIATAE</b>	<i>Satureja</i>
<i>Aeollanthus repens</i> Oliv.	Bytebier B <i>et al.</i> 29, 192
Bytebier B <i>et al.</i> 259	2400–2500 m
2350–2350 m	
First record for K1	<i>Satureja abyssinica</i> (Benth.) Briq.
<i>Becium decumbens</i> (Guerke) A.J.Paton	Archer PG 691; Kerfoot O 2060; Cameron JBC 112; Bono G 115
Bytebier B <i>et al.</i> 78	2134–2600 m
2500–2500 m	
<i>Becium obovatum</i> (E.Mey. ex Benth.) N.E.Br. var. <i>capitatum</i>	<i>Satureja biflora</i> (D.Don) Benth.
Archer PG 700; Kerfoot O 2094	Bytebier B <i>et al.</i> 181; Kerfoot O 2029; Cameron JBC 109
2286–2743 m	2134–2500 m
<i>Leonotis nepetifolia</i> (L.) R.Br.	<i>Satureja pseudosimensis</i> Brenan
Bytebier B <i>et al.</i> 60	Bytebier B <i>et al.</i> 205
2400–2400 m	2500–2500 m
<i>Leucas grandis</i> Gürke	First record for K1
	<i>Tinnea aethiopica</i> Kotschy ex Hook.f.
	Bytebier B <i>et al.</i> 326
	1600–1600 m

**LEGUMINOSAE**

<i>Acacia etbaica</i> Schweinf.	<i>Dolichos sericeus</i> E.Mey. ssp. <i>sericeus</i>
Bytebier B <i>et al.</i> 308	Bono G 320
1600–1600 m	2000–2000 m
<i>Acacia hockii</i> De Wild.	<i>Glycine wightii</i> (Wight & Arn.) Verdc. ssp. <i>petitiana</i> (A.Rich.) Verdc. var. <i>mearnsii</i> (De Wild.) Verdc.
Kerfoot O 1903	Kerfoot O 1917
2134–2134 m	1829–1829 m
<i>Acacia senegal</i> (L.) Wild	<i>Glycine wightii</i> (Wight & Arn.) Verdc. ssp. <i>wightii</i> var. <i>longicauda</i> (Schweinf.) Verdc.
Bytebier B <i>et al.</i> 357	Ichikawa M 905
1000–1000 m	1676–1676 m
<i>Amphicarpa africana</i> (Hook.f.) Harms	<i>Indigofera atriceps</i> Hook.f. ssp. <i>atriceps</i>
Kerfoot O 1915	Kerfoot O 1909
2652–2652 m	2134–2134 m
<i>Argyrolobium fischeri</i> Taub.	<i>Indigofera lupatana</i> Baker f.
Archer PG 703; Bono G 30; Cameron JBC	Kerfoot O 1912
113	2134–2134 m
2000–2286 m	<i>Indigofera schimperi</i> Jaub. & Spach var. <i>schimperi</i>
<i>Cadia purpurea</i> (Picc.) Aiton	Gilbert MG, Gachathi FN & Gatheri GW 5192
Bytebier B <i>et al.</i> 333; Ichikawa M 899;	1350–1350 m
Kerfoot O 1905; Jex-Blake M 11777; Jex-	<i>Indigofera swaziensis</i> Bolus var. <i>swaziensis</i>
Blake AJ H69/51	Kerfoot O 1910
1600–2286 m	2439–2439 m
<i>Chamaecrista usambarensis</i> (Taub.) Standley	<i>Indigofera volkensii</i> Taub.
Bytebier B <i>et al.</i> 199; Adamson J 565	Bytebier B <i>et al.</i> 37; Gilbert MG, Gachathi FN & Gatheri GW 5190A
2500–2743 m	1350–2400 m
<i>Crotalaria</i>	<i>Kotschy recurvifolia</i> (Taub.) F.White ssp. <i>keniensis</i> Verdc.
Bytebier B <i>et al.</i> 212	Cameron JBC 119
2500–2500 m	2439–2439 m
<i>Crotalaria fascicularis</i> Polhill	<i>Lablab purpureus</i> (L.) Sweet ssp. <i>uncinatus</i> Verdc.
Bono G 28	Kerfoot O 1922
1900–1900 m	2439–2439 m
<i>Crotalaria incana</i> L. ssp. <i>purpurascens</i> (Lam.) Milne-Redh.	<i>Lotus goetzei</i> Harms
Bytebier B <i>et al.</i> 152, 265	Kerfoot O 1911
2350–2500 m	2134–2134 m
<i>Crotalaria keniensis</i> Baker f.	<i>Mucuna gigantea</i> (Willd.) DC. ssp. <i>quadrialata</i> (Baker) Verdc.
Kerfoot O 1913	Bytebier B <i>et al.</i> 298
2286–2286 m	1600–1600 m
<i>Crotalaria lachnocarpoides</i> Engl.	<i>Ormocarpum trachycarpum</i> (Taub.) Harms
Bytebier B <i>et al.</i> 156; Kerfoot O 1906,	Kerfoot O 1937
1907	
2439–2500 m	
<i>Crotalaria natalitia</i> Meisn. var. <i>natalitia</i>	
Bytebier B <i>et al.</i> 274; Bono G 132;	
Kerfoot O 1914	
2134–2500 m	
<i>Desmodium repandum</i> (Vahl) DC.	
Kerfoot O 1918	
2652–2652 m	

<b>2134–2134 m</b>	<b>LOGANIACEAE</b>
<i>Psoralea foliosa</i> Oliv.	<i>Nuxia congesta</i> Fresen.
Adamson J 537	Bytebier B et al. 182; Bono G 25
2743–2743 m	2300–2500 m
<i>Pterolobium stellatum</i> (Forssk.) Brenan	
Kerfoot O 1935	<b>LORANTHACEAE</b>
1829–1829 m	<i>Agelanthus elegantulus</i> (Engl.) Polhill &
<i>Tephrosia interrupta</i> Engl. ssp. <i>interrupta</i>	Wiens
Adamson J 559; Kerfoot O 1908; Bono G	Bussmann R 9758
133; Gilbert MG, Gachathi FN & Gatheri	2350–2550 m
GW 5204	First record for K1
1600–2652 m	<i>Englerina woodfordioides</i> (Schweinf.)
<i>Teramnus labialis</i> (L.f.) Spreng. ssp.	Balle
<i>labialis</i> var. <i>abyssinicus</i> (A.Rich.) Verdc.	Bytebier B et al. 40, 200
Kerfoot O 1920	2400–2500 m
2439–2439 m	
<i>Trifolium semipilosum</i> Fresen. var.	<b>MALVACEAE</b>
<i>semipilosum</i>	<i>Abutilon hirtum</i> (Lam.) Sweet
Bono G 204	Kerfoot O 2008
2500–2500 m	2652–2652 m
<i>Vigna schimperi</i> Baker	<i>Abutilon longicuspe</i> A.Rich.
Bytebier B et al. 34; Kerfoot O 1916	Kerfoot O 1986
2400–2439 m	2743–2743 m
<i>Zornia setosa</i> Baker f. ssp. <i>ovata</i> (Baker	<i>Abutilon mauritianum</i> (Jacq.) Sweet
f.) J.Léon. & Milne-Redh.	Kerfoot O 2010, 2013
Bytebier B et al. 91	2134–2439 m
2500–2500 m	<i>Hibiscus</i>
	Bono G 130
<b>LINACEAE</b>	2400–2400 m
<i>Linum kenicense</i> T.C.E.Fr.	<i>Hibiscus fuscus</i> Garcke
Bussmann R 9780	Bytebier B et al. 286
2350–2550 m	2350–2350 m
<i>Linum volkensii</i> Engl.	<i>Hibiscus ludwigii</i> Eckl. & Zeyh.
Bytebier B et al. 95; Adamson J 547	Bono G 29
2500–2743 m	2100–2100 m
	<i>Hibiscus vitifolius</i> L.
<b>LOBELIACEAE</b>	Kerfoot O 2009
<i>Lobelia giberroa</i> Hemsl.	2743–2743 m
Bytebier B et al. 236	<i>Pavonia kilimandscharica</i> Gürke
2550–2550 m	Kerfoot O 2011
<i>Lobelia holstii</i> Engl.	2743–2743 m
Bytebier B et al. 207; Adamson J 566;	<i>Pavonia patens</i> (Andr.) Chiov.
Kerfoot O 2085; Cameron JBC 124	Bytebier B et al. 82
2286–2743 m	2500–2500 m
<i>Monopsis stellaroides</i> (C.Presl) Urb. ssp.	<i>Pavonia urens</i> Cav.
<i>schimperiana</i> (Urb.) Thulin	Bytebier B et al. 97
Bytebier B et al. 202	2500–2500 m
2500–2500 m	<i>Sida rhombifolia</i> L.
First record for K1	Kerfoot O 2014
	2439–2439 m

*Sida tenuicarpa* Vollesen  
 Bytebier B et al. 167; Bussmann R 9756  
 2450–2500 m

#### MELIACEAE

*Turraea abyssinica* A.Rich.

Bytebier B et al. 280

2350–2350 m

First record for K1

*Turraea holstii* Gürke

Bussmann R, Sight record

2350–2350 m

#### MENISPERMACEAE

*Cocculus pendulus* (J.R.Forst. & G.Forst.)

Diels

Bono G 200

2350–2350 m

*Stephania abyssinica* (Quart.-Dill. &

A.Rich.) Walp.

Kerfoot O 2101

2743–2743 m

#### MONIMIACEAE

*Xymalos monospora* (Harv.) Warb.

Bytebier B et al. 4; Cameron JBC 129;

Ichikawa M 902

2000–2400 m

#### MORACEAE

*Ficus scassellatii* Pamp. ssp. *scassellatii*

Bytebier B et al. 338

1600–1600 m

*Ficus vallis-choudae* Delile

Bytebier B et al. 295

1600–1600 m

#### MYRSINACEAE

*Maesa lanceolata* Forssk.

Kerfoot O 1952

2743–2743 m

*Myrsine africana* L.

Bytebier B et al. 237; Cameron JBC 120;

Bono G 22

1850–2200 m

*Rapanea melanophloeos* (L.) Mez

Bytebier B et al. 2

2400–2400 m

#### MYRTACEAE

*Syzygium cordatum* Hochst.

Kerfoot O 1944

1829–1829 m

#### NYCTAGINACEAE

*Commicarpus helenae* (Roem. & Schult.)

Meikle

Bytebier B et al. 310

1600–1600 m

#### OCHNACEAE

*Ochna insculpta* Sleumer

Bytebier B et al. 268

2350–2350 m

#### OLEACEAE

*Chionanthus battiscombei* (Hutch.) Stearn

Bussmann R, Sight record

2350–2550 m

*Jasminum abyssinicum* Hochst. ex DC.

Bytebier B et al. 24

2400–2400 m

*Jasminum floribundum* R.Br. ex Fresen.

Kerfoot O 1978

2743–2743 m

*Jasminum fluminense* Vell. ssp. *holstii*

(Gilg) Turrill

Kerfoot O 1976; Bono G 129

2300–2743 m

*Olea capensis* L.

Bytebier B et al. 10, 98

2400–2500 m

*Olea europaea* L. ssp. *africana* (Mill.)

P.Green

Bytebier B et al. 88; Kerfoot O 1962,

1964; Adamson J 395; Adamson J B 6164

2378–2500 m

*Schrebera alata* (Hochst.) Welw.

Bytebier B et al. 292

2350–2350 m

#### ONAGRACEAE

*Epilobium hirsutum* L.

Bytebier B et al. 316

1600–1600 m

First record for K1

**OPILIACEAE**

*Opilia amentacea* Roxb.  
Bono G 136  
2300–2300 m

**OROBANCHACEAE**

*Orobanche minor* Sm.  
Bytebier B et al. 31  
2400–2400 m

**OXALIDACEAE**

*Oxalis corniculata* L.  
Bytebier B et al. 163  
2500–2500 m  
First record for K1

**PIPERACEAE**

*Peperomia abyssinica* Miq.  
Bytebier B et al. 67  
2400–2400 m  
*Piper capense* L.  
Bytebier B et al. 64, 173; Kerfoot O 2022  
2400–2743 m

**PLUMBAGINACEAE**

*Plumbago dawei* Rolfe  
Kerfoot O 2061  
2743–2743 m

**POLYGALACEAE**

*Polygala sphenoptera* Fresen.  
Bytebier B et al. 94, 242; Bussmann R  
9779  
2200–2500 m

**POLYGONACEAE**

*Polygonum amphibium* L.  
Bussmann R 9787  
2350–2550 m  
First record for K1  
*Polygonum setosulum* A.Rich.  
Bytebier B et al. 227; Kerfoot O 2034,  
2035  
2500–2743 m  
*Rumex bequaertii* De Wild.  
Kerfoot O 2030  
2134–2134 m  
*Rumex steudelii* A.Rich.  
Bytebier B et al. 63  
2400–2400 m

**PRIMULACEAE**

*Lysimachia volkensii* Engl.  
Bytebier B et al. 15  
2400–2400 m

**PROTEACEAE**

*Faurea saligna* Harv.  
Bytebier B et al. 190B; Kerfoot O 1936  
2500–2743 m  
*Protea caffra* Meisn. ssp.  
*kilimandscharica* (Engl.) Chisumpa &  
Brummitt  
Cameron JBC 127  
2134–2134 m

**RANUNCULACEAE**

*Clematis brachiata* Thunb.  
Bytebier B et al. 55  
2400–2400 m  
*Clematis simensis* Fresen.  
Bytebier B et al. 320; Bono G 41; Kerfoot  
O 2004  
1600–2591 m  
*Ranunculus multifidus* Forssk.  
Bytebier B et al. 223; Kerfoot O 2032,  
2033  
1829–2743 m  
*Thalictrum rhynchocarpum* Quart.-Dill. &  
A.Rich.  
Bytebier B et al. 27  
2400–2400 m  
First record for K1

**RHAMNACEAE**

*Rhamnus prinoides* L'Hérit  
Bytebier B et al. 32; Kerfoot O 1971  
2400–2743 m  
*Rhamnus staddo* A.Rich.  
Kerfoot O 1946  
2134–2134 m  
*Scutia myrtina* (Burm.f.) Kurz  
Bytebier B et al. 174  
2500–2500 m  
*Ziziphus mucronata* Willd. ssp. *mucronata*  
Ichikawa M 898; Kerfoot O 1940  
1890–1981 m

**RHIZOPHORACEAE**

*Cassipourea malosana* (Baker) Alston

Bytebier B et al. 11

2400–2400 m

**ROSACEAE**

*Alchemilla cryptantha* A.Rich.

Bytebier B et al. 33

2400–2400 m

*Prunus africana* (Hook.f.) Kalkman

Bytebier B et al. 155; Adamson J 390

2439–2500 m

*Rubus adolfi-friederici* Engl.

Kerfoot O 1983

2743–2743 m

*Rubus apetalus* Poir.

Bytebier B et al. 7; Kerfoot O 1984

2400–2743 m

**RUBIACEAE**

*Anthospermum usambarensense* K.Schum.

Kerfoot O 1999

2286–2286 m

*Galiniera saxifraga* (Hochst.) Bridson

Bytebier B et al. 47

2400–2400 m

First record for K1

*Galium aparineoides* Forssk.

Bytebier B et al. 39

2400–2400 m

First record for K1

*Pavetta abyssinica* Fresen. var. *abyssinica*

Bytebier B et al. 272

2350–2350 m

*Pavetta gardeniifolia* A.Rich. var. *gardeniifolia*

Cameron JBC 121

2134–2134 m

*Pentas lanceolata* (Forssk.) Deflers

Bytebier B et al. 271

2350–2350 m

*Pentas parvifolia* Hiern

Bytebier B et al. 304; Kerfoot O 2031;

Gilbert MG, Gachathi FN & Gatheri GW

5213

1350–2439 m

*Psychotria kirkii* Hiern var. *tarambassica* (Bremek.) Verdc.

Bytebier B et al. 241; Kerfoot O 1966,

1967, 1968; Gilbert MG, Gachathi FN & Gatheri GW 5197

1600–2591 m

*Psychotria orophila* Petit

Bytebier B et al. 14; Kerfoot O 1953

2134–2400 m

*Psydrax schimperiana* (A.Rich.) Bridson

ssp. *schimperiana*

Bytebier B et al. 315

1600–1600 m

*Rytigynia uhlriegii* (K.Schum. & K.Krause)

Verdc.

Bytebier B et al. 277

2350–2350 m

*Tarenna graveolens* (S.Moore) Bremek.

var. *graveolens*

Kerfoot O 1955

2286–2286 m

*Tarenna graveolens* (S.Moore) Bremek.

var. *impolita* Bridson

Gilbert MG, Gachathi FN & Gatheri GW

5190

1350–1350 m

*Vangueria apiculata* K.Schum.

Gilbert MG, Gachathi FN & Gatheri GW

5215

1650–1650 m

*Vangueria madagascariensis* J.F.Gmel.

Bytebier B et al. 301, 346; Kerfoot O 1954

1600–1829 m

*Vangueria volkensii* K.Schum. var. *volkensii*

Bytebier B et al. 275, 328

1600–2350 m

**RUTACEAE**

*Clausena anisata* (Willd.) Benth.

Bytebier B et al. 5; Kerfoot O 1993;

Adamson J 396

2400–2652 m

*Teclea nobilis* Delile

Bytebier B et al. 42, 172; Kerfoot O 1957

2400–2500 m

*Teclea simplicifolia* (Engl.) Verdc.

Kerfoot O 1980

2286–2286 m

*Vepris samburuensis* Kokwaro

Bytebier B et al. 313

1600–1600 m

**SALVADORACEAE**

*Salvadora persica* L. var. *persica*

Bono G 212	<i>Hebenstretia angolensis</i> Rolfe
2000–2000 m	Bytebier B <i>et al.</i> 162; Cameron JBC 126; Kerfoot O 2020
<b>SANTALACEAE</b>	2439–2500 m
<i>Osyridicarpos schimperianus</i> A.DC.	<i>Misopates orontium</i> (L.) Raf.
Bytebier B <i>et al.</i> 297, 351	Archer PG 692
1600–1600 m	2286–2286 m
<i>Osyris abyssinica</i> (Hochst.) A.Rich.	<i>Selago thomsonii</i> Rolfe
Kerfoot O 2016	Bytebier B <i>et al.</i> 186, 364; Adamson J 553
2286–2286 m	1600–2743 m
<i>Osyris lanceolata</i> Hochst. & Steud.	<i>Verbascum brevipedicellatum</i> (Engl.)
Bytebier B <i>et al.</i> 185	Hub.-Mor.
2500–2500 m	Bytebier B <i>et al.</i> 30, 161; Adamson J 560
	2400–2743 m
	<i>Veronica anagallis-aquatica</i> L.
<b>SAPINDACEAE</b>	Bytebier B <i>et al.</i> 235
<i>Allophylus abyssinicus</i> (Hochst.) Radlk.	2550–2550 m
Bytebier B <i>et al.</i> 12	
2400–2400 m	
<i>Allophylus griseo-tomentosus</i> Gilg	<b>SIMAROUBACEAE</b>
Kerfoot O 1951	<i>Brucea antidyserterica</i> Lam.
2134–2134 m	Bytebier B <i>et al.</i> 16; Bono G 37
<i>Cardiospermum halicacabum</i> L.	2400–2450 m
Bytebier B <i>et al.</i> 311	
1600–1600 m	<b>SOLANACEAE</b>
<i>Dodonaea viscosa</i> (L.) Jacq.	<i>Solanum aculeatissimum</i> Jacq.
Kerfoot O 1981	Bytebier B <i>et al.</i> 65; Kerfoot O 1987
2591–2591 m	2400–2743 m
	<i>Solanum benderianum</i> Engl.
<b>SAPOTACEAE</b>	Kerfoot O 2000
<i>Manilkara mochisia</i> (Baker) Dubard	2591–2591 m
Adamson TG 17; Kerfoot O 1947	<i>Solanum incanum</i> L.
914–2134 m	Bussmann R, Sight record
<i>Mimusops kummel</i> A.DC.	2350–2550 m
Bytebier B <i>et al.</i> 330, 349	<i>Solanum indicum</i> L.
1600–1600 m	Bytebier B <i>et al.</i> 13, 266
	2350–2400 m
	<i>Solanum indicum</i> L. ssp. <i>adoense</i>
<b>SCROPHULARIACEAE</b>	(Hochst.) Bitter
<i>Bartsia longiflora</i> Hochst. ex Benth.	Kerfoot O 1988, 1989
Adamson J 546	2439–2743 m
2743–2743 m	<i>Solanum indicum</i> L. ssp. <i>grandifrons</i>
<i>Cynium tenuisectum</i> (Standl.)	Bitter
O.J.Hansen	Bytebier B <i>et al.</i> 75
Bytebier B <i>et al.</i> 208	2400–2400 m
2500–2500 m	<i>Solanum nigrum</i> L.
<i>Halleria lucida</i> L.	Bytebier B <i>et al.</i> 221; Bono G 134
Bytebier B <i>et al.</i> 86; Adamson J 536;	2400–2500 m
Kerfoot O 1975	<i>Solanum renchii</i> Vatke
2500–2743 m	Bytebier B <i>et al.</i> 305
	1600–1600 m

<i>Solanum schumannianum</i> Dammer	Bytebier B <i>et al.</i> 291; Bono G 21; Kerfoot O 2027, 2028
Bussmann R, Sight record	2286–2439 m
2350–2550 m	
<i>Solanum terminale</i> Forssk.	<i>Sanicula elata</i> Buch.-Ham. ex D.Don
Bytebier B <i>et al.</i> 28	Bytebier B <i>et al.</i> 18
2400–2400 m	2400–2400 m
<b>STERCULIACEAE</b>	
<i>Dombeya goetzenii</i> K.Schum.	<i>Torilis arvensis</i> (Huds.) Link
Kerfoot O 1941	Bytebier B <i>et al.</i> 264; Bussmann R 9784
2439–2439 m	2350–2450 m
<i>Dombeya rotundifolia</i> Planch.	
Gilbert MG, Gachathi FN & Gatheri GW	
5199	
1600–1600 m	
<b>THYMELAEACEAE</b>	
<i>Gnidia glauca</i> (Fresen.) Gilg	<b>URTICACEAE</b>
Bytebier B <i>et al.</i> 165; Kerfoot O 2005	<i>Droguetia iners</i> (Forssk.) Schweinf.
Cameron JBC 122	Bussmann R, Sight record
2286–2500 m	<i>Girardinia diversifolia</i> (Link) Friis
<i>Struthiola thomsonii</i> Oliv.	Bytebier B <i>et al.</i> 282
Bytebier B <i>et al.</i> 203; Archer PG 706;	2350–2350 m
Adamson J 545	<i>Laportea alatipes</i> Hook.f.
2500–2743 m	Bytebier B <i>et al.</i> 3
	2400–2400 m
	First record for K1
	<i>Parietaria debilis</i> G.Forst.
	Bytebier B <i>et al.</i> 43
	2400–2400 m
	<i>Pilea johnstonii</i> Oliv.
	Bussmann R, Sight record
	2350–2550 m
<b>TILIACEAE</b>	
<i>Sparrmannia ricinocarpa</i> (Eckl. & Zeyh.)	<i>Urera hypselodendron</i> (A.Rich.) Wedd.
Kuntze	Bytebier B <i>et al.</i> 100
Kerfoot O 2015	2500–2500 m
2439–2439 m	First record for K1
<b>UMBELLIFERAE</b>	
<i>Alepidea peduncularis</i> A.Rich.	<b>VERBENACEAE</b>
Bytebier B <i>et al.</i> 206; Kerfoot O 2064;	<i>Clerodendrum johnstonii</i> Oliv.
Cameron JBC 125; Archer PG 688;	Kerfoot O 1960
Adamson J 539	2439–2439 m
2439–2743 m	<i>Clerodendrum myricoides</i> (Hochst.) Vatke
<i>Anthriscus sylvestris</i> (L.) Hoffm. var.	Bytebier B <i>et al.</i> 322; Gilbert MG,
<i>sylvestris</i>	Gachathi FN & Gatheri GW 5200
Bytebier B <i>et al.</i> 45, 209	1600–1600 m
2400–2500 m	
<i>Diplolophium africanum</i> Turcz.	<b>VIOLACEAE</b>
Adamson J 561	<i>Viola abyssinica</i> Oliv.
2439–2439 m	Bytebier B <i>et al.</i> 54; Kerfoot O 2102
<i>Ferula communis</i> L.	2400–2743 m
Kerfoot O 2026	
2134–2134 m	
<i>Heteromorpha trifoliata</i> (H.L.Wendl.)	<b>VISCACEAE</b>
Eckl. & Zeyh.	<i>Viscum triflorum</i> DC.
	Bytebier B <i>et al.</i> 290
	2350–2350 m

<i>Viscum tuberculatum</i> A.Rich.	Bytebier B <i>et al.</i> 154
Bussmann R 9749	2500–2500 m
2350–2550 m	<i>Commelina benghalensis</i> Wall. Kerfoot O 2092 2743–2743 m <i>Commelina foliacea</i> Chiov. Bytebier B <i>et al.</i> 36 2400–2400 m <i>Cyanotis foecunda</i> Hassk. Bytebier B <i>et al.</i> 343; Bussmann R 9781 1600–2450 m
<b>VITACEAE</b>	
<i>Cyphostemma bambuseti</i> (Gilg & Brandt)	
Wild & R.B.Drumm.	
Bytebier B <i>et al.</i> 285	
2350–2350 m	
First record for K1	
<i>Cyphostemma kilimandscharicum</i> (Gilg)	
Wild & R.B.Drumm.	
Bytebier B <i>et al.</i> 49	
2400–2400 m	
<i>Rhoicissus revoilii</i> Planch.	
Bytebier B <i>et al.</i> 293	
1600–1600 m	
<b>MONOCOTYLEDONAE</b>	
<b>ALOACEAE</b>	
<i>Aloe</i>	
Bytebier B <i>et al.</i> 360	
1600–1600 m	
<b>AMARYLLIDACEAE</b>	
<i>Scadoxus multiflorus</i> (Martyn) Raf.	
Bytebier B <i>et al.</i> 256	
2350–2350 m	
<b>ASPARAGACEAE</b>	
<i>Asparagus africanus</i> Lam.	
Bytebier B <i>et al.</i> 183	
2500–2500 m	
<i>Asparagus falcatus</i> L. var. <i>ternifolius</i>	
Jessop	
Bytebier B <i>et al.</i> 270	
2350–2350 m	
<b>ASPHODELACEAE</b>	
<i>Bulbine abyssinica</i> A.Rich.	
Bytebier B <i>et al.</i> 151, 219; Bussmann R	
9820	
2450–2500 m	
<b>COMMELINACEAE</b>	
<i>Aneilema leicocaula</i> K.Schum.	
Bussmann R, Sight record	
2350–2550 m	
<i>Commelina africana</i> L.	
	<b>CYPERACEAE</b>
	<i>Cyperus</i>
	Bytebier B <i>et al.</i> 68
	2400–2400 m
	<i>Cyperus comosipes</i> Mattf. & Kük. ssp. <i>comosipes</i>
	Bytebier B <i>et al.</i> 257
	2350–2350 m
	<i>Cyperus dichroostachyus</i> A.Rich.
	Bytebier B <i>et al.</i> 234; Kerfoot O 1926
	2500–2743 m
	<i>Cyperus impubes</i> Steud.
	Bytebier B <i>et al.</i> 261
	2350–2350 m
	<i>Cyperus niveus</i> Retz. var. <i>leucocephalus</i>
	(Kunth) Fossberg
	Kerfoot O 1924
	2743–2743 m
	<i>Cyperus rigidifolius</i> Steud.
	Bytebier B <i>et al.</i> 59, 159
	2400–2500 m
	<i>Cyperus rohlfssii</i> Boeck.
	Bytebier B <i>et al.</i> 342
	1600–1600 m
	<i>Cyperus sesquiflorus</i> (Torr.) Mattf. & Kük. ssp. <i>appendiculatus</i> (K.Schum.) Lye
	Bytebier B <i>et al.</i> 71
	2400–2400 m
	<i>Cyperus niger</i> Ruiz & Pav. ssp. <i>elegantulus</i> (Steud.) Lye
	Kerfoot O 1925
	2743–2743 m
	<i>Schoenoxiphium lehmannii</i> (Nees) Steud.
	Bussmann R 9819
	2350–2550 m
	<b>DRACAENACEAE</b>
	<i>Dracaena afromontana</i> Mildbr.

Bytebier B et al. 21	<i>Leptochloa rupestris</i> C.E.Hubb.
2400–2400 m	Bytebier B et al. 303
<i>Dracaena ellenbeckiana</i> Engl.	1600–1600 m
Bytebier B et al. 358	First record for K1
1600–1600 m	<i>Panicum deustum</i> Thunb.
<b>GRAMINEAE</b>	Bytebier B et al. 302
<i>Agrostis schimperana</i> Steud.	1600–1600 m
Bytebier B et al. 228	<i>Panicum hymeniochilum</i> Nees
2500–2500 m	Bytebier B et al. 229
<i>Andropogon</i>	2500–2500 m
Bytebier B et al. 153	First record for K1
2500–2500 m	<i>Rhynchospora repens</i> (Willd.) C.E.Hubb.
<i>Brachypodium flexum</i> Nees	Bytebier B et al. 353
Bussmann R, Sight record	1600–1600 m
<i>Bromus leptoclados</i> Nees	<i>Sinarundinaria alpina</i> (K.Schum.)
Cameron JBC 116	C.S.Chao & Renvoize
2591–2591 m	Bytebier B et al. 53
<i>Chloris roxburghiana</i> Schult.	2400–2400 m
Bytebier B et al. 299	<i>Sporobolus africanus</i> (Poir.) Robyns &
1600–1600 m	Tournay
<i>Cynodon nemfuensis</i> Vanderyst var.	Bytebier B et al. 99
nemfuensis	2500–2500 m
Bytebier B et al. 284	<i>Stipa dregeana</i> Steud. var. <i>elongata</i> (Nees)
2350–2350 m	Stapf
<i>Digitaria velutina</i> (Forssk.) P.Beauv.	Bytebier B et al. 267
Bytebier B et al. 296	2350–2350 m
1600–1600 m	
<i>Ehrharta erecta</i> Lam. var. <i>abyssinica</i>	<b>HYACINTHACEAE</b>
(Hochst.) Pilg.	<i>Albuca abyssinica</i> Jacq.
Bytebier B et al. 61; Kerfoot O 1930	Bytebier B et al. 157
2400–2743 m	2500–2500 m
<i>Eleusine multiflora</i> A.Rich.	
Bytebier B et al. 166	<b>HYPONOTIDACEAE</b>
2500–2500 m	<i>Hypoxis kilimanjarica</i> Baker ssp.
First record for K1	<i>kilimanjarica</i>
<i>Enteropogon macrostachyus</i> K.Schum. ex	Bytebier B et al. 90; Bussmann R 9776
Engl.	2450–2500 m
Bytebier B et al. 306	First record for K1
1600–1600 m	<i>Hypoxis obtusa</i> Burch.
<i>Eragrostis schweinfurthii</i> Chiov.	Bytebier B et al. 214
Bytebier B et al. 195	2500–2500 m
2500–2500 m	
First record for K1	<b>IRIDACEAE</b>
<i>Eragrostis tenuifolia</i> (A.Rich.) Steud.	<i>Aristea alata</i> Baker
Bytebier B et al. 89	Bytebier B et al. 79; Adamson J 535
2500–2500 m	2500–2743 m
<i>Exotheca abyssinica</i> (A.Rich.) Andersson	<i>Gladiolus goetzei</i> Harms
Bytebier B et al. 211	Archer PG 701
2500–2500 m	2439–2439 m
	<i>Gladiolus newii</i> Bak.

Bytebier B *et al.* 218

2500–2500 m

First record for K1

#### JUNCACEAE

*Juncus oxycarpus* Kunth

Bytebier *et al.* 81, Bussmann R9760

2450–2500 m

#### ORCHIDACEAE

*Aerangis thomsonii* (Rolfe) Schltr.

Adamson TG 534; Bytebier B *et al.* 102

2350–2743 m

*Brownleea parviflora* Lindl.

Kerfoot O 2100

2743–2743 m

*Diaphananthe rohrii* (Rchb.f.) Summerh.

Bytebier B *et al.* 131

2500–2500 m

First record for K1

*Eulophia petersii* Rchb.f.

Bytebier B *et al.* 144

1600–1600 m

*Polystachya confusa* Rolfe

Archer PG 713; Bytebier B *et al.* 110, 113,

132, 133

2400–2652 m

*Polystachya piersii* P.J.Cribb

Bytebier B *et al.* 101; Archer PG 709

2350–2350 m

*Rangaeris amaniensis* (Kraenzl.)

Summerh.

Bytebier B *et al.* 142

2250–2250 m