The identity of *Calymperes campylopodioides* Müll.Hal. ex Besch.

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Abstract. Calymperes campylopodioides Müll.Hal. ex Besch. is placed in synonymy with Calymperes graeffeanum Müll.Hal., and the occurrence of the latter species in continental Africa is noted.

Calymperes campylopodioides Müll.Hal. ex Besch., described from Cameroon, was erroneously placed in synonymy with Calymperes palisotii Schwaegr. by Edwards (1980) and Ellis (1987). A reinvestigation of the type material indicates that C. campylopodioides is conspecific with Calymperes graeffeanum Müll.Hal.

Taxonomy

In Calymperes palisotii, the cells of the chlorophyllose lamina are 6-11 µm wide, and protrude roundly from the ventral leaf surface (Fig. 1g, h); the margins of the chlorophyllose lamina are entire to uneven (Fig. 1i), and the apices of the gemmiferous leaves are usually obtusely pointed (Fig. 1f). In contrast, the cells of the chlorophyllose lamina in C. graeffeanum rarely exceed a width of 7.5 µm, and many protrude subacutely from the ventral leaf surface (Fig 1b, c). The margins of the chlorophyllose lamina are notched to denticulate (Fig. 1d, e), and the gemmiferous leaves possess a rounded to truncate apex (Fig. 1f).

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The type of *C. campylopodioides* clearly possesses the characteristic features of *Calymperes greaffeanum*, and in consequence, the following synonymy is proposed.

Calymperes graeffeanum Müll.Hal., *J. Mus. Godeffroy* **3** (6): 64 (1874). TYPE. Western Samoa, Upolu, *Graeffe s.n.* (isotype-BM).

Synonym: *Calymperes campylopodioides* Müll.Hal. ex Besch., *Annls Sci. nat. Bot. sér. 8*, **1**: 265, 280 (1895), *syn. nov.* TYPE. Africa. Cameroon, Bibundi, 5m, September 1891, *Dusén* exs. no. *151* (holotype-BM, isotypes-BM, Herb. CCT).

For a detailed, illustrated account and fuller synonymy of *Calymperes graeffeanum* see Ellis (1988).

Distribution

Calymperes graeffeanum Müll.Hal. has a mainly Indo-Pacific distribution which is relatively continuous from Pitcairn and the Tuamotu Islands in the Pacific to Mauritius and the Seychelles in the Indian Ocean. *Dusén 151*, and another collection from Cameroon (*Thompson & Rawlins 1630* (MO)), have largely gone unnoticed. (W. D. Reese (LAF) was first correctly to identify the latter collection). *Calymperes graeffeanum* is apparently unrecorded from other parts of continental Africa, and therefore, these collections from Cameroon represent an odd disjunction at the western extreme of its range.

Additional specimen examined Africa. Cameroon, Province: Sud-Ouest, Department: Fako, Bakingili, 4° 04'N 9° 02'E, 16 July 1984, *Thompson & Rawlins* 1630 (MO).

Acknowledgements

I am grateful to Cliff Townsend for the loan of specimens from his personal herbarium (Herb. CCT), and to the curators at MO for allowing me to examine material there.

References

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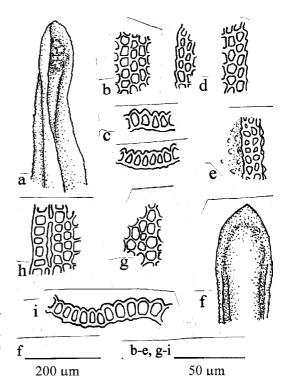


Fig. 1. a-e. *Calymperes graeffeanum* Müll.Hal. a: apex of gemmiferous leaf (ventri-lateral view); b, c: chlorophyllose lamina (b: in surface view, c: in cross-section); d, e: leaf margin (d: near leaf apex, e: in midleaf (erect, polystratose). f-i. *Calymperes palisotii* Schwaegr. f: apex of gemmiferous leaf (dorsal view); g, h: chlorophyllose lamina (g: in surface view, h: in cross-section); i: leaf margin at mid-leaf. a-e. Drawn from Cameroon, *Dusén 151* (BM). f-i. Drawn from Nigeria, *E.W. Jones 909* (BM).