

Miscanthidium junceum subsp. teretifolium (Poaceae) ; a new combination for an African grass

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Yasushi Ibaragi : *Miscanthidium junceum* subsp. *teretifolium* (Poaceae) ; a new combination for an African grass

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Miscanthidium teretifolium (Stapf) Stapf has often been treated synonymously with *M. junceum* (Stapf) Stapf, since diagnostic characteristics are quantitative and vary (Launert 1970 ; Gibbs Russell et al. 1985 ; Gibbs Russell 1991 ; Clayton 2002). However they differ in the variation of callus and glume hair (Fig. 1) and geographic distribution (Fig.2). Additionally, several differences are observed in the inflorescence length and awn length (Stapf 1906 ; Pilger 1907 ; Chippindall 1955). Therefore, it is appropriate to classify them at subspecific rank in *M. junceum*.

Miscanthidium Stapf was treated as an independent genus here as it differs from the genus *Miscanthus* Andersson, by chromosome number

(De Wet 1960 ; Hoshino and Davidse 1988) and phylogeny (Hodkinson et al. 1997, 2002).

Miscanthidium junceum (Stapf) Stapf in Hooker's Icon. Pl. 31 : t. 3084 (1922) - Chippindall in Meredith, Grasses and Pastures S. Africa : 480 (1955) - Launert in Merxmüller, Prodr. Fl. SW. Africa 160 : 131 (1970) - *Erianthus junceus* Stapf in Dyer, Fl. Cap. 7 : 324 (1898) - *Miscanthus junceus* (Stapf) Pilg. in Nat. Pflanzenfam. (ed.2) 14 e : 113 (1940) - Gibbs Russell in Grasses of Southern Africa : 221 (1991). Types : Kalahari region. Basutoland. Leribe, Buchanan 228 ; Transvaal. Olifants river, Nelson 73 ; Jungle streamlet, Nelson 77 (Syntypes : WU? n.v.)

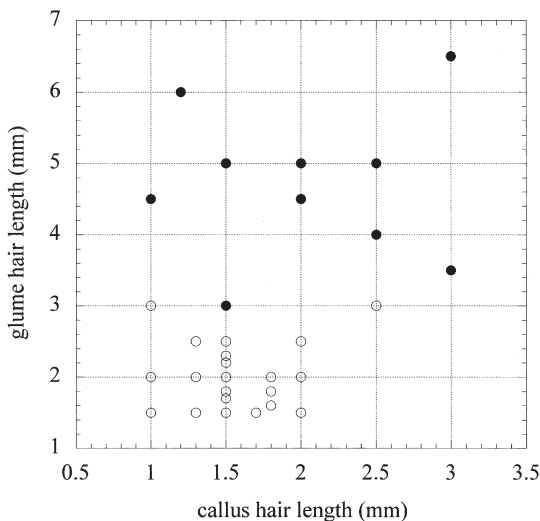


Fig. 1. Comparison of the maximum length of the callus hairs and the glume hairs of *Miscanthidium junceum* subsp. *junceum* (○) and subsp. *teretifolium* (●). Dots are based on all the specimens examined in this study.

Key to the subspecies of *Miscanthidium junceum*

1. Culm up to 1-2.5 m high ; inflorescence 25-42 cm long ; glume hairs 1.5-3 mm long, golden ; callus hairs 1-2.5 mm long ; awn 3-6 mm long -----subsp. *junceum*
1. Culm up to 2-3.5 m high ; inflorescence 32-51 cm long ; glume hairs 3-6.5 mm long, silver ; callus hairs 1-3 mm long ; awn 6-10 mm long -----subsp. *teretifolium*

Miscanthidium junceum subsp. *junceum*

Cleistachne teretifolia Hack. in Oesterr. Bot. Z. 51 : 153 (1901) - *Miscanthidium gossweileri* Stapf in Prain, Fl. Trop. Afr. 9 : 90 (1917) - *Miscanthus gossweileri* (Stapf) Pilg. in Nat. Pflanzenfam. (ed. 2) 14 e : 113 (1940). Type : Angola. Campos de Humpata prope rivum Nene. Newton a. 1883 (Holotype : W? n.v.).

Distribution : Angola, Zambia, Zimbabwe, South Africa and Swaziland.

Specimens examined : without precise locality, Zeyher 1828 (BM).

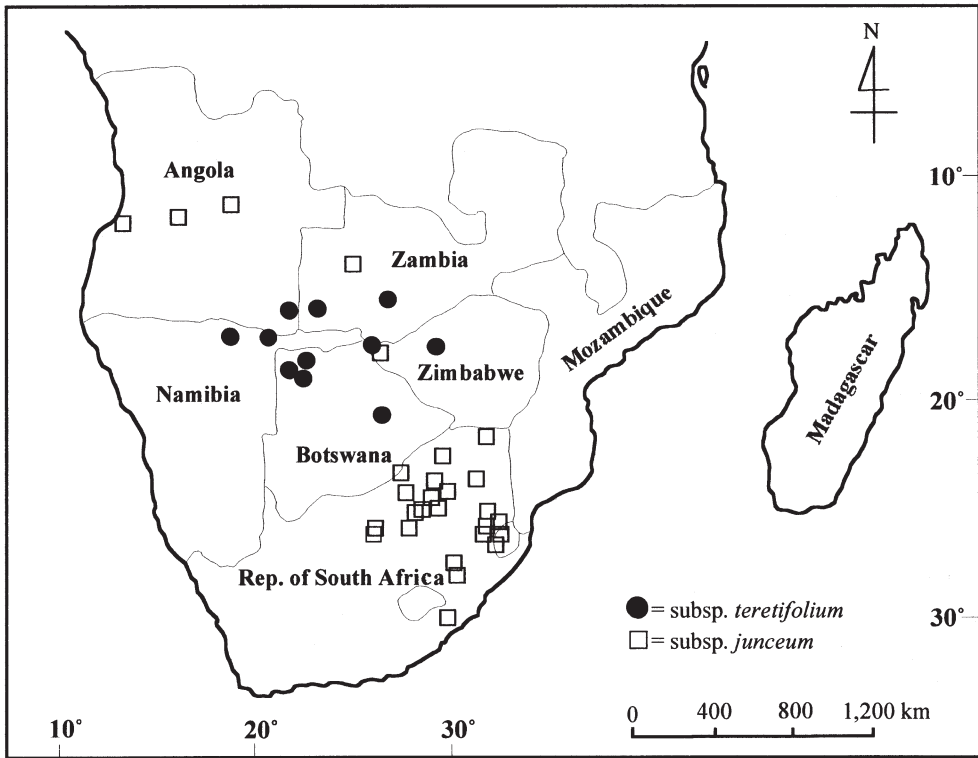


Fig. 2. Distribution map of *Miscanthidium junceum* subsp. *junceum* and subsp. *teretifolium*.

Angola. Benguela: Tomens dusky purple in the maarslus of the rivulet Luasenha-lutchi, Gossweiler 3067 (BM) ; Moxico: R. Luena, Vila Luso, alt. ca. 1,240 m, Exell & Mendonca 1546 (BM) ; along the river Tiengs Kuito, Gossweiler 4032 (BM).

Zambia. Barotseland: Mankoya, Luena river bank Mangango Mission, Verboom 1186 (BM).

Zimbabwe. Victoria Falls, S. bank of Zambesi, alt. 3,000 ft, Rogers 5664 (BM, BOL) ; Salisbury South, 25 Jan. 1920, Eyles 2032 (BM) ; Salisbury East, Eyles 1553 (BM).

South Africa. Natal: Margate near airfield, alt. 75 m, Ellis 6020 (PRE) ; Utrecht, alt. ca. 1,550–1,650 m, Devenish 1736 (PRE) ; 39 km S. of Utrecht, along road to Blood River Monument, Davids 6822 (PRE) ; Transvaal: near Potgietersrust, alt. 5,500 ft, Galpin 8878 (PRE) ; 10 m E. of Ylammanskraal, Winter & Codd 251 (PRE) ; Lochiel, alt. 1,500 m, Werdermann & Oberdieck 2224 (PRE) ; Lydenburg, bei der Stadt Lydenburg, Wilms 1896 (BM) ; Melspncut, White River, alt.

3,000 ft, Winter & Codd 444 (BM) ; Pietersburg, north of Naboomspruit Farm, Kaalfontein, alt. 1,600 m, Burgoyne 1739 (PRE) ; Potchefstroom, Louw 1633 (BM) ; Potchefstroom, Louw 1466 (BM) ; Rustenburg, Bartlett's Farm, Magaliesberg Mountains, alt. 1,372 m, Mogg 36178 (PRE) ; Sibasa, Tate Vondo, alt. 1,178 m, Hemm 559 (PRE) ; near Pretoria, Crusoos 11138 (BM) ; Vaalwater, Emaweni Game Lodge, Waterval Macouwkuil navy water, Theron 259 (PRE) ; about 9 miles west of Krugersdorp, on Farm Gladysvale, Rodin 3943 (NBG) ; Thabazimbi Kransberg Kloof on plateau, alt. 1,400 m, Westfall 1006 (PRE) ; Ohrigstaddam, Nat. Res., alt. 4,600 ft, Jacobsen 2641 (PRE) ; Bronkhorstspuit, Roodepoort 10 km west of town, alt. 1,402 m, Turner 18 (PRE) ; alt. 3,500 ft, Schlechter 6903 (BM) ; Lebowa, alt. 2650 ft, Ellery 382 (PRE).

Swaziland. Hhohho, Malolotjya Nature Reserve, stream east of staff house, just below confluence of stream from east and stream below road, Braun 1363 (PRE) ; Hlatikuen, Sibowe

River, alt. ca. 2,000 ft, Compton 29706 (NBG) ; Manhaiana, alt. ca. 3,000 ft, Compton 32230 (NBG) ; Mbabane, Hlambanyati valley, Compton 24947 (NBG) ; Mbabane, Black Mhluzi Causeway, alt. ca. 3,500 ft, Compton 30428 (NBG).

Miscanthidium junceum* subsp. *teretifolium

(Stapf) Ibaragi, comb. et stat. nov.

Erianthus teretifolius Stapf in J. Linn. Soc. Bot. **37** : 478 (1906) - *Miscanthidium teretifolium* (Stapf) Stapf in Prain, Fl. Trop. Afr. **9** : 89 (1917) - Stapf in Hooker's Icon. Pl. **31** : t. 3084 (1922) - Chippindall in Meredith, Grasses and Pastures S. Africa : 480 (1955) - *Miscanthus teretifolius* (Stapf) Pilg. in Nat. Pflanzenfam. (ed. 2) **14 e** : 113 (1940). Type : Zimbabwe. Victoria Falls, banks of river and islands. Fl. and Fr. Sep. 1905, Gibbs 141 (Holotype : K, n.v. ; Isotype : BM).

Erianthus teretifolius Pilg. in Bot. Jahrb. Syst. **39** : 597 (1907) non Stapf (1906). Type : Angola. Malange, Quisanya, near Panca Meueba, Gossweiler 807 (Holotype : BM).

Distribution : Angola, Zambia, Zimbabwe, Namibia and Botswana.

Additional specimens examined : Angola. Santa Cruz, Mashu Rivier, near Shangombo, alt. 3,400 ft, Codd 7498 (BM).

Zambia. Barotseland : 8 miles N. of Nangweshi, alt. 3,400 ft, Codd 7163 (BM) ; Namwala, Kafue National Park, Mitchell 14/82 (BM).

Zimbabwe. Gokwe, Gokwe Lly Gate, ± 10 m, N.W. of Gokwe, Baisgham 637 (BM).

Namibia. Andara, R.C. Miss. Station camp, Müller 518 (PRE).

Botswana. Becl Avaland, Sherobe, S. van Son 28607 (BM) ; Northern, Khwai River, 1/2 hours boat trip upstream from Gobegha lagoon, Okavango swamp, alt. 1,000 m, Gibbs Russell & Biegel 1546 (PRE) ; Northern, Mboma, Okavango swamps, Smith 91 (PRE) ; Northern, Dobonga Island, Smith 656 (PRE) ; Okavango, im Omurumba, Omatake Bai, Blackfontein, nordlich Bumbi, Giess 10096 (PRE).

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茨木 靖：アフリカ産イネ科植物の新組合せ
Miscanthidium junceum* subsp. *teretifolium
新組み合わせとして *Miscanthidium junceum*

subsp. *teretifolium* を提唱した。*M. teretifolium* (Stapf) Stapf は、近年 *M. junceum* (Stapf) Stapf のシノニムとされることが多いが、両者は分布域や包穎上の毛の状態などの点で異なっている。
(〒770-8070 徳島市八万町文化の森総合公園 徳島県立博物館)