NEW AND INTERESTING RECORDS OF MOSSES IN THE *FLORA OF SOUTHERN AFRICA* AREA: 5. NEW PROVINCIAL RECORDS

New provincial distribution records in the moss flora of South Africa, identified since the publication of the latest checklist for the country (Van Rooy 2006) are reported here. The new records are based on specimens in the bryophyte collection of the National Herbarium, Pretoria (PRE). Taxonomy and nomenclature follow Van Rooy (2006).

1. Braunia secunda *(Hook.) Bruch & Schimp*.

NORTHERN CAPE.—3119 (Calvinia): Nieuwoudtville Area, Oorlogskloof Nature Reserve, along path from entrance to river, Fynbos vegetation along edge of scarp, 31°26'50"S, 19°11'30"E, ± 700 m, on shaded rock, (–AC), *T.A.J. Hedderson 14332* (BOL, PRE).

2. Bryum cellulare *Hook*.

EASTERN CAPE.—3029 (Kokstad): Bizana, Ndunge Forest, N of town, small stream through forest, on soil, with *Philonotis* sp., (–DD), 29 Dec. 2006, *N. Phephu 38* (PRE). 3129 (Port St. Johns): Ntabankulu, KuGomo Forest, about 6.5 km S of town, on soil, (–AB), 3 May 2007, *N. Phephu 99* (PRE).

3. Bryum viridescens *Welw. & Duby*

NORTHERN CAPE.—3220 (Sutherland): Tankwa Karoo National Park, top of Gannaga Pass about 2 km on plateau NE of Agterkop Farm, 32°06'05"S, 20°07'48"E, 1 249 m, Succulent Karoo, on sandy soil in partial shade, (–AA), 5 Aug. 2006, *S.P. Bester 7074A* (PRE).

4. Chamaebryum pottioides *Thér. & Dixon*

EASTERN CAPE.—3028 (Matatiele): ± 15 km E of Rhodes, Mavis Bank Farm, on Kloppershoek turn-off, W-facing rocky ridge near house at base of cliff, 30°42'51"S, 28°00'47"E, 2 106 m, on soil in rock crevices, with *Plagiochasma rupestre* (J.R.Forst. & G.Forst.) Steph. var. *rupestre* and *Riccia* sp., (–CA), 8 Dec. 1999, *M. Koekemoer 1506* (PRE).

5. Crossidium spiralifolium *Magill*

WESTERN CAPE.—3319 (Worcester): Worcester Dist., Fairy Glen, (–CB), Aug. 1932, *C.W. Thorne CH50306* (PRE).

6. Didymodon australasii *(Hook. & Grev.) R.H.Zander*

EASTERN CAPE.—3325 (Port Elizabeth): Port Elizabeth, Summerstrand, at top of Richardson road among Port Jackson trees and other shrubs, on dump of bricks and stones, (–DC), 1 Aug. 1991, *E.B. Evenwel 32* (PRE).

7. Ephemerum rehmannii *(Müll.Hal.) Broth*.

GAUTENG.—2528 (Pretoria): Bronkhorstspruit Dist., Ezemvelo Nature Reserve, along stream running into dam at reception centre, 1 400 m, grassland with exotic poplar and wattle trees, on soil among grass, (–DB), 10 May 1999, *J. van Rooy 3908, 3917* (both PRE).

8. Fabronia pilifera *Hornsch*.

NORTHERN CAPE.—2920 (Boomrivier): Kenhardt Dist., T'Oubeep Farm, ± 80 km S of Kakamas, T'Oubeep portion A, 29°19'13"S, 20°13'12"E, 886 m, Bushmanland vegetation, on stony soil in light shade, (–AC), *S.P. Bester 6887, 6888* (both PRE).

9. Fissidens asplenioides *Hedw*.

GAUTENG.—2528 (Pretoria): Bronkhorstspruit Dist., Ezemvelo Nature Reserve, along Grootspruit, tributary of Wilge River, 1 350 m, Bankenveld, on soil bank of stream, (–DB), 10 May 1999, *J. van Rooy 3919, 3924* (both PRE).

10. Fissidens borgenii *Hampe*

GAUTENG.—2528 (Pretoria): Little Eden, NNE of Cullinan on Sybrandskraal road, along river banks in kloof, 1 300 m, on soil in rock overhang, (–DA), 29 Mar. 2001, *J. van Rooy 4014* (PRE); Bronkhorstspruit Dist., Ezemvelo Nature Reserve, along Grootspruit, tributary of Wilge River, 1 350 m, Bankenveld, on soil in rock overhang and crevice, (–DB), 10 May 1999, *J. van Rooy 3938, 3951* (both PRE).

11. Fissidens megalotis *Schimp. ex Müll.Hal*.

WESTERN CAPE.—3319 (Worcester): McGregor Area, Kranz Nature Reserve, 33°56'59"S, 19°48'51"E, 250–300 m, succulent (karroid) vegetation over shales and patchy Fynbos on sandstones, (–DD), 5 Aug. 2001, *T.A.J. Hedderson 14113* (BOL, PRE).

12. Fissidens pygmaeus *Hornsch*.

GAUTENG.—2528 (Pretoria): Bronkhorstspruit Dist., Ezemvelo Nature Reserve, wooded area along stream running into dam opposite reception centre, on vertical earth wall, (–DB), 10 May 1999, *S.M. Perold 4095* (PRE).

13. Gigaspermum repens *(Hook.) Lindb*.

EASTERN CAPE.—3028 (Matatiele): ± 15 km E of Rhodes, Lamont Farm, on Kloppershoek turn-off from Rhodes-Maclear road, 30°43'19"S, 28°00'26"E, 1 987 m, grassland, on moist soil in partial shade, with species of *Tortula*, *Pseudocrossidium* and *Grimmia*, (–CA), Dec. 1999, *M. Koekemoer 1657* (PRE).

14. Leptodontium brachyphyllum *Broth. & Thér*.

LIMPOPO.—2329 (Pietersburg): Louis Trichardt, ± 10 km N of town, behind Mountain View Hotel, on mountain below krantz, with *Hypnum cupressiforme* Hedw., (–BB), 4 Aug. 1989, *S.E. Strauss 16* (PRE).

15. Micromitrium perexiguum *(Müll.Hal.) Crosby*

LIMPOPO.—2427 (Thabazimbi): 34 km E of Thabazimbi on Bakker's Pass road, 2 km before Hartebeesfontein Farm, on damp soil at small stream near road, (–BC), 6 Mar. 1985, *S.M. Perold 859* (PRE).

16. Mittenothamnium reptans *(Hedw.) Cardot*

EASTERN CAPE.—3129 (Port St. Johns): Ntabankulu, KuGomo Forest, about 6.5 km S of town, on tree trunk, with *Aerobryopsis capensis* (Müll.Hal.) M.Fleisch., *Entodon macropodus* (Hedw.) Müll.Hal., *Thuidium* sp. and leafy liverworts, (–AB), 3 May 2007, *N. Phephu 65, 70, 157* (all PRE); on dead log, with *Papillaria africana* (Müll.Hal.) A.Jaeger, *N. Phephu 109* (PRE); on rock, with *Porotrichum madagassum* Kiaer ex Besch., *N. Phephu 69, 79, 101, 117* (all PRE).

17. Oedipodiella australis *(Wager & Dixon) Dixon*

WESTERN CAPE.—3322 (Oudtshoorn): George Div., Wilderness Nature Park, Half-collared Kingfisher Trail, 20 m, on soil, frequent, (–DC), 19 Aug. 1994, *H.F.Glen 3672* (PRE).

18. Pohlia baronii *Wijk & Margad*.

NORTHWEST.—2527 (Rustenburg): Magaliesberg, Rustenburg Nature Reserve, along small wooded kloof W of Visitor's Centre, 1 500 m, on soil of stream bank, (–CA), 18 Feb. 1997, *J. van Rooy 3740* (PRE).

19. Pohlia cruda *(Hedw.) Lindb*.

MPUMALANGA.—2530 (Lydenburg): Buffelskloof Nature Reserve, high mist forest, 1 600 m, on soil bank of road cut, (–BC), 24 Jan. 2007, *J. van Rooy 4098* (PRE); along wooded High Forest Stream near cottages, 1 700 m, on soil bank, with *Philonotis africana* (Müll.Hal.) Rehmann ex Paris and *Ditrichum brachypodum* (Müll. Hal.) Broth., *J. van Rooy 4180* (PRE).

EASTERN CAPE.—3027 (Lady Grey): ± 15 km E of Rhodes, Mavis Bank Farm, on Kloppershoek turn-off, slope of highest peak NW of house, 30°42'23"S, 27°59'88"E, 2 346 m, on soil under rock overhang, with *Bartramia* sp., (–DB), 9 Dec. 1999, *M. Koekemoer 1573* (PRE); Rhodes, gravel road/jeep track between Naudesnek and Ben Macdhui, Marshfield Farm, 30°39'23"S, 27°59'01"E, 2 500 m, grassland, on soil, 11 Dec. 1999, *M. Koekemoer 1619* (PRE).

20. Ptychomitrium exaratifolium *H.Rob*.

EASTERN CAPE.—3027 (Lady Grey): Joubert's Pass, at Sentec Tower, rocky ridges near mountain peak, 30°41'52"S, 27°16'04"E, 2 377 m, with *Ptychomitrium cucullatifolium* (Müll.Hal.) A.Jaeger and *Tortella xanthocarpa* (Schimp. ex Müll.Hal.) Broth., (–CB), 27 Feb. 2007, *C.L. Bredenkamp & D. von Staden 88A* (PRE).

21. Rhodobryum commersonii *(Schwägr.) Paris*

GAUTENG.—2527 (Rustenburg): Hartebeeshoek Satellite Tracking Station, wooded area at main tracking station, 1 450 m, on humus and humus-rich soil, (–DC), 22 Mar. 2001, *J. van Rooy 3976, 3985* (both PRE).

22. Rigodium toxarion *(Schwägr.) A.Jaeger*

LIMPOPO.—2430 (Pilgrim's Rest): Wolkberg Wilderness Area, Serala Peak, in deep shade on quartzite boulders, on forest floor in stream, (–AA), *F. Venter 11376* (PRE).

23. Schlotheimia percuspidata *Müll.Hal*.

EASTERN CAPE.—3129 (Port St. Johns): Ntabankulu, KuGomo Forest, about 6.5 km S of town, on tree trunk in forest, (–AB), 3 May 2007, *N. Phephu 72* (PRE).

24. Syntrichia ammonsiana *(H.A.Crum & L.E.Anderson) Ochyra*

NORTHWEST.—2527 (Rustenburg): Magaliesberg, Rustenburg Nature Reserve, along small wooded kloof W of Visitor's Centre, 1 500 m, on tree trunk, (–CA), 18 Feb. 1997, *J. van Rooy 3736* (PRE).

25. Syntrichia papillosa *(Wilson) Jur*.

NORTHERN CAPE.—3119 (Calvinia): Nieuwoudtville Area, Oorlogskloof Nature Reserve, along path from entrance to river, Fynbos vegetation along edge of scarp, 31°26'50"S, 19°11'30"E, ± 700 m, (–AC), 5 Oct. 2001, *T.A.J. Hedderson 14354* (BOL, PRE).

26. Trematodon longicollis *Michx*.

MPUMALANGA.—2531 (Komatipoort): near Hazyview, grounds of Hippo Hollow Hotel, on muddy banks of Sabie River, (–AA), 25 Aug. 1996, *S.M. Perold & M. Koekemoer 3572* (PRE).

EASTERN CAPE.—3029 (Kokstad): Bizana, KwaNikhwe, 10 km from Bizana to Port Edward along R61, along stream opposite Smallbird Store, on soil, (–DD), 23 Dec. 2006, *N. Phephu 10* (PRE).

REFERENCES

VAN ROOY, J. 2006. Bryophyta. In G. Germishuizen, N.L. Meyer, Y. Steenkamp & M. Keith, *A checklist of South African plants*. Southern African Botanical Diversity Network Report No. 41: 1–30. SABONET, Pretoria.

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