New taxa, new records and name changes for southern African plants

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ABSTRACT

Alterations for the year 1986 to the inventory maintained in PRECIS are reported for bryophytes, pteridophytes and monocotyledons, and for a few dicotyledons. For the cryptogams and monocots there are 77 newly described species or infraspecific taxa, 27 names brought back into use, and nine species newly reported for southern Africa, resulting in 113 additions to the total list of species. Five species were removed because they were mistakenly recorded from the area. Seventy-five names have gone into synonymy, there are 52 new combinations, and there are 35 orthographic corrections, resulting in 237 alterations to the list of species. The total of 355 additions, deletions and alterations represents about 5% of the total species and infraspecific taxa for the cryptogams and monocots.

INTRODUCTION

This is the third in this series that reports annual alterations to the complete inventory of southern African plants maintained in the computer system, PRECIS. The previous annual lists of changes were published in Bothalia 15: 757–759 (1985) and 16: 109–118 (1986) (Staff of the National Herbarium 1985, 1986). The format continues to be that of the List of species of southern African plants, Edn 2, Part 1 (Gibbs Russell et al. 1985). The complete and up-to-date listing of names, literature and useful synonyms for all the 24 000 southern African plants is continuously maintained as part of PRECIS. Listings of the most recent treatment for any family or genus can be supplied by the Botanical Research Institute.

The majority of changes reported here apply only to cryptogams and monocots because changes for the dicotyledons to 30 June 1986 are included in the List of species of southern African plants, Edn 2, Part 2 (Gibbs Russell et al. 1987). However, a few changes for dicots published in the last half of 1986 are listed here.

Families and genera follow the order and numbering of the Englerian classification system, as given by Dyer (1975, 1976), and species are in alphabetical order. A name in current use appears in capital letters with its PRECIS number. Synonyms appear in lower case letters, and each synonym is entered twice, once indented below the name for which it is a synonym, and once in its alphabetical place in the genus. New collection records are indicated by quoting a specimen and its locality. Naturalized taxa are shown by an asterisk following the name.

The length of the list is again surprising to its compilers. During 1986 there were additions, deletions and alterations in about 5% of the names for cryptogams and monocots, compared to about 6% for 1985. Additions include 77 newly described species or infraspecific taxa, 27 names brought back into use that were not in previous lists, and nine species newly reported for southern Africa (all grasses, seven of them naturalized), giving a total of 113 additions to the list. Deletions include five pteridophyte species that were removed from the list because they had been mistakenly recorded from southern Africa. Alterations include 75 names that have been reduced to synonymy, 52 new combinations, and 35 orthographic corrections, giving a total of 237 alterations to the list.

The effort necessary to evaluate and compile the changes, to implement them curatorially in herbaria, and to use them in conjunction with existing literature has been discussed previously (Staff of the National Herbarium 1986). At that time it was thought that the 1985 figure of 6% changes to the overall list for cryptogams and monocots was unusually high because of many alterations in Restionaceae (Linder 1985). Therefore, changes amounting to 5% of the list in a year, when there have been no revisions of large groups, is unexpected.

Each contributor is acknowledged at the name of the group or family for which he is responsible.
REFERENCES

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LINDER, H. P. 1985. Conspectus of the African species of Restionacese. Bothalia 15: 387-504.

STAFF OF THE NATIONAL HERBARIUM 1985. New taxa, new records and name changes for southern African plants. Bothalia 15: 751-759.

STAFF OF THE NATIONAL HERBARIUM 1986. New taxa, new records and name changes for southern African plants. Bothalia 16: 109-118.

BRYOPHYTA Contributed by J. van Rooy 1000

HEPATICAE

An up-to-date systematic arrangement of southern African liverwort genera in orders, families and subfamilies after Grolle (1983), which is essentially that of Schuster (1980), will be followed in future.

1. Grolle, R. 1983. Acta Bot. Fennica 121: 1-62.
2. Schuster, R. M. 1980. Syst. Assn. Special Vol. 14: 41-82.

PTERIDOPHYTA Contributed by C. Reid 30

SELAGINELLACEAE

30 -SELAGINELLA BEAV.
5. SCHELPE & ANTHONY. 1986. FSA. (Note author correction)
300 S. imbricata (Forssk.) Spring ex Decne. (Note author change)

ISOETACEAE

40 -ISOetes L.
5. SCHELPE & ANTHONY. 1986. FSA.
520 I. rhodesiana Alston = I. SCHWEINFURTHII
550 I. SCHWEINFURTHII A. BR. (Note correct spelling)
720 I. transvaalensis Jerny & Schelpe (Note author change)

PHOENIXGLOSAEACE

60 -PHOENIXGLOSUM L.
4. SCHELPE & ANTHONY. 1986. FSA.
400 O. POLYPHYLLUM A. BR. IN SELMB. (Note author change)

OSMURDACEAE

60 -OSMUNDA L.
4. SCHELPE & ANTHONY. 1986. FSA.
100 O. REGALIS L.
40. schelpi Bobrov
4. (O. transvaalensis Bobrov) 4
O. schelpi Bobrov = O. REGALIS
O. transvaalensis Bobrov = O. REGALIS

SCHIZAEACEAE

100 -ANEMIA SHARTZ
4. SCHELPE & ANTHONY. 1986. FSA.
200 A. simii TARDEU (Note author change)

MARSILEACEAE

190 -MARSILEA L.
190 -MARSILEA N. DE ORTA 6: 119.
1000 M. musica A. BR. VAR. GYMYCARPA (Lepr. ex A. BR.) LAUNERT

AZOLLACEAE

200 -AZOLLA LAM.
4. ASHTON & MAHSLLEY. 1986. BOT. J. LIDN. SOC. 91: 239
A. nilotica Decne. ex Matt. does not occur in Southern Africa
300 A. PINNATA R. BR.

DENNstaDIACEAE

230 -HISTIOPTERIS (AGARDH) J. SM.
4. SCHELPE & ANTHONY. 1986. FSA.
(Note author change for genus)

ADIANTAceAE

290 -ADIANTA L.
4. SCHELPE & ANTHONY. 1986. FSA.
200 A. radiata (Koenig ex Swartzi) LINK. (Note author change)
300 -ADIANTA L.
4. SCHELPE & ANTHONY. 1986. FSA.
400 A. poiretti WIXST.
500 A. poiretti Wixstr. var. sulphureum (Kaulf.) Tryon is only known in cultivation

330 -CERATOPTERIS BRONGN.
5. SCHELPE & ANTHONY. 1986. FSA.
C. cornuta sensu Jacobson = C. THALICTROIDES
100 C. THALICTROIDES (L.) BRONGN.
C. cornuta sensu Jacobson = C. THALICTROIDES

340 -CHEILANTHES SHARTZ
5. ANTHONY. 1984. CONTR. BOLUS HERB. 11. 77
1460 C. quadripinnata (Forssk.) KURN.
Pellaea quadripinnata (Forssk.) Prantl 5
1850 C. ROBUSTA (KUNZE) R. TRYON
Pellaea robusta (Kuntze) Hook. 5
360 -PELLAEA LINK
P. quadripinnata (Forssk.) Prantl = CHEILANTHES QUADRIPI NATA
P. robusta (Kunze) Hook. = CHEILANTHES ROBUSTA

370 -PITRHYGMAEA LINK
5. SCHELPE & ANTHONY. 1986. FSA.
P. aures (Willd.) C. Chr. Southern African species accommodated in P. ARGENTEA
P. calomelanos (L.) Link var. calomelanos does not occur in southern Africa

LINDSEAEAE

390 -LINDSEAE DRYAND. APUD J.E. SM.
4. SCHELPE & ANTHONY. 1986. FSA.
(Note author change for genus)

GRAMMATIDAEAE

395 -GRAMMATIS SHARTZ
4. SCHELPE & ANTHONY. 1986. FSA.
100 G. POIRETIUM (MELL.) PIKI-SEMM.
(Note author change)

POLYPODIACEAE

410 -PLEOPELTIS H.B.K. EX WILLD.
4. SCHELPE & ANTHONY. 1986. FSA.
(Note author change for genus)

470 -PYRROSIA MIRB.
200 P. SCHIMPERIANA (METT. EX KUNZE) ALSTON
(Note spelling correction)

DAVALLIACEAE

480 -NEPHROLEPIS SCHOTT
5. SCHELPE & ANTHONY. 1986. FSA.
N. undulata (Afzel. ex Swartzi) J. Sm. does not occur in southern Africa.

510 -OLEANDRA CAV.
4. SCHELPE & ANTHONY. 1986. FSA.
(Note author correction for genus)

ASPLENIACEAE

520 -ASPLENIUM L.
4. SCHELPE & ANTHONY. 1986. FSA.
200 A. ADIANTUM-NIGRUM L. VAR. SOLIDUM (KUNZE)

520 A. PREUSSII HIERON. EX BRAUSE

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THELYPTERIDACEAE 532

531 -Amourpelta Kunze = THELYPTERIS
   A. knysnaensis (N.C. Anthony & Schelpe) Parris
   = THELYPTERIS KNYSNAENSIS

532 -THELYPTERIS SCHMIDEL

650 T. KNYSNAENSIS N.C. ANTHONY & SCHELPE
   (=Amourpelta knysnaensis (N.C. Anthony & Schelpe) Parris) 6 8

ASPIDIACEAE 590

650 -POLYSTICHUM ROTH
   5. SCHMIDEL (Note correct spelling)
   300 P. MACLEAE (BAK.) DIELS
   (Note author change)
   380 P. MACLEAE (BAK.) DIELS
   (Note correct spelling)

BLECHNACEAE 690

690 -BLECHNUM L.
   4. SCHMIDEL (Note correct spelling)

GYMNOSPERMIAE Contributed by C. Reid

PODOCARPACEAE 0013000 -PODOCARPUS L'HERIT. EX PERS.
   (Note author correction)

ANGIOSPERMEA Contributed by C. Reid

HYDROCHARITACEAE 0087000 -EGERIA PLANCH.
   2. COOK & UMPI-KONIS. 1984. AQUATIC BOTANY 19: 73.

POACEAE Contributed by L. Smook

9900820 -HACKELCHLOA KUNTZ
   2. CLAYTON & RENOVIZE. 1982. FTA.
   3. VELDKAMP. 1986. BLUMEA 31: 281.
   100 H. GRANULARIS (L.) KUNTZ 2

9900890 -COELORACHIS BROWN.
   1. CHIPPINDALL. 1955. GR.
   2. VELDKAMP. 1986. BLUMEA 31: 281.
   100 C. CAPENSE BURN. F.
   (Note author change)

9900932 -Hesperethea Kunth
   1. Veldkamp. 1986. Blumea 31: 281.
   Species could be transferred to this genus from
   HACKELCHLOA and COELORACHIS

9900940 -HYPERHERISSA LEM.-LISANC.
   (Note author change for genus)

99009750 -HYPERHERISSA LEM.-LISANC.
   (Note author change for genus)

9900946 -ALLOTROPISM C.B. PRESL
   (Note author correction for genus)

9901010 -PSEUDELIOHOLACA STAFF
   100 P. POLYSTACHIA (KUNTZ) STAFF
   (Note author change)

9901020 -ERIODICTYLA KUNTZ
   75 E. MACLONOMII STAFF

Tropical African species collected in
Botsuana, 1823 (Siambiselo) Floodplain
of Sibogo (-BC), P.A. Smith 4299.

9901021 -ENTOLASIA STAFF
   300 E. OLIVACEA STAFF
   Tropical African species collected in
   Transvaal. 2329 (Pietersburg) Dap
   Naude Dam; Hagebaskloof area (-OB),
   Johanniesmeer 372.

9901040 -BRACHIARIA TRIN. EX PERS.
   (Note author change for genus)

9901870 -PERICALLA TRIN.
   1. CHIPPINDALL. 1955. GR. & PAST.
   2. TUTIN. 1960. FL. EUROPE.
   100 P. MINUTA (L.) ASCH. & GRAEBN. = 1
   (Species treated in MOLINIERIELLA in Fl.
   Europ., without synonymy)

9901890 -DESHAMPSIA BEAV.
   100 D. CESPITOSA (L.) BEAV.
   (Note corrected spelling)

9901970 -HELICOTRICHON SCHULT.
   (Note author change for genus)

9902000 -PENTAMESIS BEAV.
   1. SCHWEICKERDT. 1938. EDEGES REPIRUM
   42: 91.

400 P. ELEUSINIFOLIA (HOCHST.) SCHWEICK.
   (P. squarrosa Stapf) 1

500 P. MINUTA (L.) ASCH. & GRAEBN. = 1

500 P. ELEUSINIFOLIA (HOCHST.) SCHWEICK.
   (P. squarrosa Stapf) 1

9902140 -PHRAGMITES ADANSON
   (Note author correction for genus)

9902860 -ERAGROSTIS WOLF
   (Note author change for genus)

9902960 -CYNNODON RICH.
   (Note author change for genus)

9902970 -BRACHYCHNE STAFF
   (Note author change for genus)

9903180 -TRIPOGON ROEM. & SCHULT.
   (Note author change for genus)

9903310 -ELEUSINE GAERTN.
   3. DE WET ET AL. 1984. AMER. J. BOT. 71:
   550.

150 E. CORACANA (L.) GAERTN. SUBSP. AFRICANA
   (K.-O'BRYNE) HILU & DE WET
   (E. indicata (L.) Gaertn. subsp. africana
   (K.-O'Bryne) S.M. Phillips) 3

50 E. INDICA (L.) GAERTN. SUBSP. AFRICANA
   (K.-O'Bryne) S.M. Phillips

9903331 -ACRACHNE CHIOV.
   (Note author correction for genus)

9903360 -COELOCHIUM HOCHEST. & NEES
   (Note author correction for genus)

9903570 -ELEUSINE ROEM. & SCHULT.
   (Note author change for genus)

9903730 -CYNOBANDUS L.
   Revision: H.P. Linder (BOL).
   2. LINDER. 1956. BOTANIA 16: 61.

50 C. COLORATUS LEM. EX NEES

9903980 -DACTYLLIS L.
   Revision: H.P. Linder (BOL).
   (Note correction for genus number)

9904040 -BIZA L.
   Revision: H.P. Linder (BOL).
   B. trifolia Nees = CHASCOLITRUM SUBRISTATUM

9904041 -CHASCOLITRUM DESV.
   1. MATTHEI. 1955. WILDEMONIA, BEINHEFT
   8: 79.

100. C. SUBRISTATUM (LAM.) DESV.
   (*)Biza trifolia Nees)

9904070 -PLOA L.
   Revision: H.P. Linder (BOL).
   8. PRE HERBARIUM PRACTICE, FOLLOWING LINDER.
   P. asterotrichum Stapf = P. BINATA
   P. bidentata Stapf = P. PRATENSIS

400 P. BINATA NEES
   (Note author correction for genus)

9904080 -BIZA L.
   Revision: H.P. Linder (BOL).
   B. trifolia Nees = CHASCOLITRUM SUBRISTATUM

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   1. MATTHEI. 1955. WILDEMONIA, BEINHEFT
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9904070 -PLOA L.
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   P. bidentata Stapf = P. PRATENSIS

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9904080 -BIZA L.
   Revision: H.P. Linder (BOL).
   B. trifolia Nees = CHASCOLITRUM SUBRISTATUM

9904041 -CHASCOLITRUM DESV.
   1. MATTHEI. 1955. WILDEMONIA, BEINHEFT
   8: 79.

100. C. SUBRISTATUM (LAM.) DESV.
   (*)Biza trifolia Nees)
- THINOPYRUM LOEVE = AGROPYRON P.P.
1. CIPHIPINDALL. 1955. GR. & PAST.
2. DEMET. 1984. GENOMIC CLASSIFICATION IN GUSTAFSON, GENE MANIPULATION.:
1. CHIPPINDALL. 1955. GR. & PAST.
2. DEMET. 1984. GENOMIC CLASSIFICATION IN GUSTAFSON, GENE MANIPULATION.:
1. CIPHIPINDALL. 1955. GR. & PAST.
2. DEMET. 1984. GENOMIC CLASSIFICATION IN GUSTAFSON, GENE MANIPULATION.:
1. CIPHIPINDALL. 1955. GR. & PAST.
2. DEMET. 1984. GENOMIC CLASSIFICATION IN GUSTAFSON, GENE MANIPULATION.:
1. CIPHIPINDALL. 1955. GR. & PAST.
2. DEMET. 1984. GENOMIC CLASSIFICATION IN GUSTAFSON, GENE MANIPULATION.:
1. CIPHIPINDALL. 1955. GR. & PAST.
2. DEMET. 1984. GENOMIC CLASSIFICATION IN GUSTAFSON, GENE MANIPULATION.:
1. CIPHIPINDALL. 1955. GR. & PAST.
2. DEMET. 1984. GENOMIC CLASSIFICATION IN GUSTAFSON, GENE MANIPULATION.:
1. CIPHIPINDALL. 1955. GR. & PAST.
2. DEMET. 1984. GENOMIC CLASSIFICATION IN GUSTAFSON, GENE MANIPULATION.:
1. CIPHIPINDALL. 1955. GR. & PAST.
2. DEMET. 1984. GENOMIC CLASSIFICATION IN GUSTAFSON, GENE MANIPULATION.:
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F. oligantha (Sted.) J. Raynal var. crinita
(Poir.) J. Raynal = F. CHRINITA
5950
W. UNDOSA B. LUR

0467000 -FUORENA ROTT.
4. FORBES. 1986. S. AFR. J. BOT. 52: 237.
F. microlepis sensu C.B. CL., non Kunth = F. OBCORDATA
950 F. OBCORDATA P.L. FORBES
("F. microlepis sensu C.B. CL., non Kunth") 4

0466000 -SCRIPUS L.
S. mace Boeck. = ISOLEPIS COSTATA VAR. MACRA
730 I. PELLOCYLA B. LUR

0471000 -BULBOSTYLIS KUNTH
S. BURTTII KUKKONEN
125 S. MOLLE KUKKONEN
126 S. BRACTEOSUM KUKKONEN
50 S. ALTUM KUKKONEN
254 S. MILLE KUKKONEN
350 S. STRIGUM KUKKONEN

0525000 -CAREX L.
R. E. HENNESSY (Durban-Westville).
280 S. POFORMIS RETZ.
(No note spelling correction)

0521000 -SCHOENOPHYLLUM MEES
2. BURTT. 1986. NOTES R. BOT. GDN EDINB. 43: 364.
105 S. ALATUM KUKKONEN
125 S. BRACTEOSUM KUKKONEN
116 S. BURTTII KUKKONEN
254 S. MILLE KUKKONEN
350 S. STRIGUM KUKKONEN

0515000 -SCLERIA BERG.
Revision: E.F. Hennessy
280 S. POFORMIS RETZ.
(No spelling correction)

0520000 -SCHENCKIOPSIS MEES
2. BURTT. 1986. NOTES R. BOT. GDN EDINB. 43: 364.
105 S. ALATUM KUKKONEN
125 S. BRACTEOSUM KUKKONEN
116 S. BURTTII KUKKONEN
254 S. MILLE KUKKONEN
350 S. STRIGUM KUKKONEN

0505000 -NOTHOSSCORDUM KUNTH
3. CODD. 1986. BOTHALIA 16: 231.
K. ANGUSTIFOLIA (BAK.) CODD
2150 K. ICHOPENSIS BAK. EX SCHINZ VAR. ACIFORMIS
2200 K. ICHOPENSIS BAK. EX SCHINZ VAR. ICHOPENSIS

1026000 -ALOE L.
Revision: H.F. Glen & D.S. Hardy
1986. ALOE 32: 32.
5. PLOUES. 1986. ALOE 32: 32.

1015000 -NOTHEXALIA BURTT.
Revision: H.F. Glen & D.S. Hardy
1986. ALOE 32: 32.
5. PLOUES. 1986. ALOE 32: 32.

750 A. ANGSTENIS BAK.
1250 A. BARBERIAE T.-DIER
7750 A. INCONSPICUUS BURTT.

1010000 -URGINEA STEIN.
U. forsteri BAK. = DRIMIA CAVIDENS
1011000 -GALTONIA DECH.
2. HILLIARD & BURTT. 1986. NOTES R. BOT. GDN EDINB. 43: 369.
250 G. REGALIS HILLIARD & BURTT.

1012000 -URINA JACQ. EX WILDL.
4. W. HUMILIS (JACQ.) HERB.
350 L. ARBUTHNOTIAE W.F. BARKER

1110000 -SANSEVIERIA THUN.
8. B. GARRETT. 1984. TAXON 33: 511.

200 S. HYACINTHIOIDES (L.) D. MULLER-DOBLIES
1.9 S. HYACINTHIOIDES (L.) D. MULLER-DOBLIES

1175000 -NERINE HERB.
4. DOUGLAS. 1985. BOTHALIA 15: 545.
N. breachiæ W.F. Barker = N. HUMILIS
950 N. HUMILIS (JACQ.) HERB.

AMARYLLIDACEAE

1166000

930000

0936000 -JUNCUS L.
4. HILLIARD & BURTT. 1986. NOTES R. BOT. GDN EDINB. 43: 367.
2050 J. MOLLIFOLIUS HILLIARD & BURTT

942000

0972000 -MURGABEA THUN.
Revision: B. Hordenstam (S).
4. HORDENSTAM. 1986. OPERA BOT. 87: 1.
W. conferta N.E. BR. = W. SPICATA VAR.

1176000 -AMARYLLIS L.
2. GOLDBLATT. 1984. TAXON 33: 511.

1166000 -GETHYLLIS L.
Revision: D. Muller-Doblies
(HERB. M-D).
3. MULLER-DOBLIES. 1986. EMERATION.
WILDEMONIA 15: 465.
220 G. BARKERIAE D. MULLER-DOBLIES SUBSP. BARKERIAE
240 G. BARKERIAE D. MULLER-DOBLIES SUBSP. PAUCIFOLIA
D. MULLER-DOBLIES
300 G. BRITITENIANA BAK. SUBSP. BRITITENIANA
300 G. BRITITENIANA BAK. SUBSP. BRUNNII D. MULLER-DOBLIES
340 G. BRITITENIANA BAK. SUBSP. HERREX (L. BOL.) D. MULLER-DOBLIES

450 G. CAVIDENS D. MULLER-DOBLIES
500 G. CILIARIUS (THUNB.) THUNB. SUBSP. CILIARIUS
1191000 -CYRTANTHUS L. F. 7. HILLIARD & BURTT. 1986. NOTES R. BOT. GN EDINB. 43: 189.
130000 -HYPOXIS L. 3. HILLIARD & BURTT. 1986. NOTES R. BOT. GN EDINB. 43: 201.
200 C. BRACHYSPHON HILLIARD t BURTT.
250 C. INGEANUM E.G.H. OLIVER
3720 H. ALBOROSEA HILLIARD & BURTT
3870 H. CANDIDA BAK.
400 W. ANGUSTA (JACQ.) KER-GAWL.
450 W. FULGENS (ANDR.) KER-GAWL.
500 W. HUMILIS MILL.
560 W. VANDERSPUYIAE L. BOL.
6710 C. AUREA (PAPPE EX HOOK.) PLANCH. VAR. AUREA
6850 D. UNIFLORA X CAULESCENS
6930 L. BOL.) D. MULLER-DOBLIES
720 G. CURVULA HILLIARD & BURTT
750 G. LATA L. BOL. SUBSP. LATA
800 G. GRANITICOLA GOLDBL.
8220 G. KAAPENSIS O. MULLER-DOBLIES
850 G. FIMBRIATULA D. MULLER-DOBLIES
900 G. HILLIARD & BURTT. 1976. NOTES R. BOT. GN EDINB. 43: 407.
950 G. OLIGOPHYLLA D. MULLER-DOBLIES
1000 G. ROGGEVELOENSIS D. MULLER-DOBLIES
1050 G. OLIVERORUM D. MULLER-DOBLIES
1150 G. HILARIANA MILL.
1200 G. ORCHIDACEAE Contributed by G. Germishuizen
1250 G. SCRIBNERIANA D. MULLER-DOBLIES
1295000 -ARISTEA AIT. 4. VINCENT. 1985. J. AFR. J. BOT. 51: 209.
