

Asteraceae in *Strelitzia* 14 (2003) and *Southern African Botanical Diversity Network Report No. 41* (2006): updates and corrections

P.P.J. HERMAN*

Keywords: Asteraceae, distribution, endemism, new combinations, new species, new tribes, southern Africa, updates

ABSTRACT

The distributions, endemism and tribal affiliations of taxa in the family Asteraceae in southern Africa are updated. New combinations and newly described species are added to the previously published lists.

INTRODUCTION

Since the publication of Herman *et al.* (2003) and Herman *et al.* (2006), a number of errors in the accounts of the family Asteraceae in southern Africa came to my attention. When the original work was started, the names and abbreviations for the new political provinces were still pliable and uncertain. Limpopo Province was originally known as the Northern Province, hence the letter N was sometimes erroneously used for Limpopo (LIM), but N was also used for Namibia. These discrepancies are corrected. Some additions to the distributions were necessary when the new political boundaries were made: often new distributions were added to the existing ones when it became clear that some plants occur just outside the previously recorded distribution ranges—plants do not comply to political boundaries! Following on these updated distributions, it was noted that the state of endemism of some species and genera had changed: these taxa are marked with an E (as in SABONET Report No. 41, 2006). Naturalized species are marked with an asterisk. The seven-digit numbers that follow the main genus entries are those used in the PRECIS database of SANBI. Publications are listed beneath the genus name and are numbered in brackets. A few newly described species and new combinations are added. Some spelling mistakes are corrected. In Herman *et al.* (2000) the tribes to which the genera belong, were noted. Based on continuous molecular studies, some genera were moved to new or different tribes. These are also indicated in this account. Some genera which are currently under revision, are not added to this account. Authors responsible for the different tribes have changed since the publication of *Strelitzia* 14. The tribe Senecioneae is now the sole responsibility of W.G. Welman, and any changes in this tribe are not accounted for in this publication. The format used in *Strelitzia* 14 is used here.

FALATOSETA Compton 9090010
tenuis Compton
NC, WC

***ANTHEMIS** L. 9330000
cotula L.
NW, G, M, FS, KZN, NC?, WC, EC

* South African National Biodiversity Institute, Private Bag X101, 0001 Pretoria.
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ARCTOTIS L.	9432000
(22) McKenzie <i>et al.</i> 2006. <i>Bothalia</i> 36: 171–173.	
(23) McKenzie <i>et al.</i> 2006. <i>Botanical Journal of the Linnean Society</i> 151: 581–588.	
fdebensis R.J.McKenzie	
Perennial. Herb. Ht 0.1–0.2 m. Alt 0–600 m. EC	
fdecurrens Jacq.	
<i>A. merxmulleri</i> Friedrich (22)	
<i>A. scullyi</i> Dümmer (22)	
Perennial. Dwarf shrub or suffrutex. Ht up to 2 m. Alt 0–30 m. NC, WC	
<i>merxmulleri</i> Friedrich = A. decurrens	
<i>scullyi</i> Dümmer = A. decurrens	
ASTER L.	8900000
fananthocladus Hilliard & B.L.Burtt	
KZN, EC	
bakerianus Burtt Davy ex C.A.Sm.	
G, M, S, FS, KZN, L, WC, EC	
erucifolius (Thell.) W.Lippert	
non <i>A. pinnatifidus</i> (Hook.) Kuntze	
ATHANASIA L.	9326000
fadenantha (Harv.) Källersjö	
NC, WC	
fgrandiceps Hilliard & B.L.Burtt	
KZN, EC	
fhirsuta Thunb.	
NC, WC	
flinifolia Burm.	
WC, EC	
fmicrophylla DC.	
NC, WC	
fpachycephala DC. subsp. pachycephala	
WC, EC?	
fpinnata L.f.	
WC, EC	
ftrifurcata (L.) L.	
NC, WC, EC	
fvestita (Thunb.) Druce	
WC, EC	
ATHRIXIA Ker Gawl.	9055000
fheterophylla (Thunb.) Less. subsp. heterophylla	
WC, EC?	
BLUMEA DC.	8939000
dregeanaoides Sch.Bip. ex A.Rich.	
N, B, LIM, NW, G, M, S, KZN	

BRACHYLAENA R.Br. <i>discolor</i> DC. LIM, M, S, KZN, EC <i>huillensis</i> O.Hoffm. B, LIM, M, KZN <i>ilicifolia</i> (Lam.) E.Phillips & Schweick. B, M, S, KZN, EC <i>eneriifolia</i> (L.) R.Br. NC, WC, EC <i>rotundata</i> S.Moore B, LIM, NW, G, M, FS	8936000	CREPIS L. <i>*capillaris</i> (L.) Wallr. <i>hypochaeridea</i> (DC.) Thell.	9605000
*CALENDULA L. <i>monstrosa</i> Burm.f. = Monoculus monstrosus <i>tomentosa</i> L.f. = Inuloides tomentosa	9423000	DENEKIA Thunb. <i>capensis</i> Thunb. N, B, LIM, NW, G, M, S, FS, KZN, L, NC, EC	8949000
CHRYSANTHEMOIDES Fabr. <i>monilifera</i> (L.) Norl. subsp. canescens (DC.) Norl. G, M, S, FS, KZN, L, EC <i>Emonilifera</i> (L.) Norl. subsp. monilifera WC <i>monilifera</i> (L.) Norl. subsp. pisifera (L.) Norl. N, NC, WC, EC <i>monilifera</i> (L.) Norl. subsp. rotundata (DC.) Norl. KZN, WC, EC <i>monilifera</i> (L.) Norl. subsp. septentrionalis Norl. LIM, M, S	9427020	DICOMA Cass. (16) Ortiz & Netnou. 2005. <i>Botanical Journal of the Linnean Society</i> 147: 509–513. Based on molecular studies, the genus <i>Dicoma</i> was put in its own tribe together with <i>Macleodium</i> and <i>Pleiotaxis</i> : the tribe Dicomeae (Panero & Funk 2002. <i>Proceedings of the Biological Society of Washington</i> 115,4: 909–922). <i>capensis</i> Less. N, B, S, FS, NC, WC, EC <i>Egalpinii</i> Wilson LIM, M <i>Ekurumanii</i> S.Ortiz & Netnou Perennial. Dwarf Shrub. Ht? Alt? NC macrocephala DC. N, B, LIM, NW, G, M, FS, KZN, NC, EC <i>Epieta</i> (Thunb.) Druce NC, WC, EC <i>swazilandica</i> S.Ortiz, Rodr.Oubina & Pulgar S	9501000
CHrysocoma L. <i>Eoblongifolia</i> DC. NC, WC <i>obtusata</i> (Thunb.) Ehr.Bayer N, B, LIM, NW, G, FS, NC, WC	8930000	DIMORPHOTHECA Vaill. ex Moench 9425000 <i>Eacuteifolia</i> Hutch. WC, EC <i>caulescens</i> (Harv.) Harv. LIM, NW, G, M, S, FS, KZN, L, EC <i>Edregei</i> DC. var. dregei NC, WC <i>Enudicaulis</i> (L.) DC. var. graminifolia (DC.) Harv. NC, WC <i>E nudicaulis</i> (L.) DC. var. nudicaulis NC, WC polyptera DC. N, NC, WC <i>E zeyheri</i> Sond. B, NW, FS, L, NC, WC, EC	9425000
CONYZA Less. (8) Pruski & Sancho. 2006. <i>Novon</i> 16: 96–101. <i>albida</i> Willd. ex Spreng. = C. sumatrensis var. sumatrensis <i>floribunda</i> Kunth = C. sumatrensis var. leiotheca , not <i>FSA</i> (8) <i>kraussii</i> Sch.Bip. ex Walp. = Pluchea dioscoridis , not <i>FSA</i> (7) <i>pinnata</i> (L.f.) Kuntze LIM, G, M, S, FS, KZN, L, NC, WC, EC <i>sumatrensis</i> (Retz.) E.Walker var. leiotheca , not <i>FSA</i> (8) <i>C. floribunda</i> Kunth <i>Erigeron floribundus</i> (Kunth) Sch.Bip. *sumatrensis (Retz.) E.Walker var. sumatrensis <i>C. albida</i> Willd. ex Spreng. (8) <i>Erigeron albidus</i> (Willd. ex Spreng.) A.Gray (8) <i>Erigeron sumatrensis</i> Retz. (8) Annual. Herb. Ht 0.2–2 m. Alt 2–1912 m. N, B, LIM, NW, G, M, S, FS, KZN, NC, WC, EC <i>ulmifolia</i> (Burm.f.) Kuntze LIM, NW, G, M, S, FS, KZN, NC, WC, EC	8926000	*DITTRICHIA Greuter <i>graveolens</i> (L.) Greuter NC, WC	9061005
DOELLIA Sch.Bip. emended Anderb. 8939010 <i>cafra</i> (DC.) Anderb. N, B, LIM, NW, G, M, S, KZN, EC			
*ERIGERON L. <i>albidus</i> (Willd. ex Spreng.) A.Gray = Conyza sumatrensis var. sumatrensis <i>floribundus</i> (Kunth) Sch.Bip. = Conyza sumatrensis var. leiotheca , not <i>FSA</i> <i>sumatrensis</i> Retz. = Conyza sumatrensis var. sumatrensis			8901000
E CORYMBIUM L. Based on molecular studies, the genus <i>Corymbium</i> was put in its own subfamily and tribe: subfamily Corymbioideae, tribe Corymbieae (Panero & Funk 2002. <i>Proceedings of the Biological Society of Washington</i> 115,4: 909–922). <i>Eglabrum</i> L. var. glabrum WC, EC	8764000	ERIOCEPHALUS L. <i>Edecussatus</i> Burch. FS, NC, WC	9320000

ERIOCEPHALUS L. (cont.)		
E <i>glandulosus</i> M.A.N.Müll.		
FS, NC, WC, EC		
E <i>karooicus</i> M.A.N.Müll.		
NW, FS, NC, EC		
merxmulleri M.A.N.Müll.		
N, FS, NC		
E <i>tenuipes</i> C.A.Sm.		
WC, EC		
 *FACELIS Cass.	8986000	
<i>retusa</i> (Lam.) Sch.Bip.		
KZN, WC, EC		
 FELICIA Cass.	8919000	
(7) Ortiz. 2007. <i>Botanical Journal of the Linnean Society</i> 154,4: 545–548.		
<i>clavipilosa</i> Grau subsp. <i>clavipilosa</i>		
N, B, NW, NC		
E <i>macrorrhiza</i> (Thunb.) DC.		
NC, WC		
E <i>martinsiana</i> S.Ortiz		
Annual. Herb. Ht 0.05–0.12 m. Alt 600–700 m. NC,		
WC		
E <i>microcephala</i> Grau		
WC, EC		
E <i>minima</i> (Hutch.) Grau		
NC, WC		
petiolata (Harv.) N.E.Br.		
FS, KZN, L, EC		
quinquenervia (Klatt) Grau		
M, FS, KZN, L, EC		
rosulata Yeo		
LIM, M, S, FS, KZN, L, EC		
E <i>tsitsikamae</i> Grau		
EC		
 *GAMOCHAETA Wedd.	8992060	
coarctata (Willd.) Kerguélen		
LIM, G, M, S, KZN, WC, EC		
spiciformis (Sch.Bip.) Cabrera		
S, KZN, EC		
subfalcata (Cabrera) Cabrera		
LIM, G, M, S, FS, KZN, WC, EC		
 GARULEUM Cass.	9426000	
E <i>pinnatifidum</i> (Thunb.) DC.		
FS, NC, WC, EC		
 E <i>GIBBARIA</i> Cass.	9427010	
<i>ilicifolia</i> (L.) Norl. = <i>Nephrotheca ilicifolia</i>		
 GNAPHALIUM L.	8992000	
austroafricanum Hilliard		
M, KZN, L, EC		
confine Harv.		
N, G, M, FS, KZN, L, NC, WC?, EC		
*polycaulon Pers.		
N, B, LIM, M, KZN		
 HELICHRYSOPSIS Kirp.	8992030	
<i>septentrionalis</i> (Vatke) Hilliard (not <i>septentrionale</i>)		
 E <i>HETEROLEPIS</i> Cass.		9057000
E <i>aliena</i> (L.f.) Druce		
NC?, WC		
 E <i>HIPPIA</i> L.		9357000
E <i>bolusae</i> Hutch.		
WC		
E <i>pilosa</i> (P.J.Bergius) Druce		
WC		
 INULANTHERA Källersjö		9326010
<i>calva</i> (Hutch.) Källersjö		
LIM, M, S, FS, KZN, EC		
 E <i>INULOIDES</i> B.Nord.		9428040
(1) Nordenstam. 2006. <i>Compositae Newsletter</i> 44: 44, 45.		
E <i>tomentosa</i> (L.f.) B.Nord.		
<i>Calendula tomentosa</i> L.f. (1)		
<i>Osteospermum cuspidatum</i> DC. (1)		
<i>Osteospermum tomentosum</i> (L.f.) Norl. (1)		
<i>Tripteris tomentosa</i> (L.f.) Less. (1)		
Perennial. Herb. Ht 0.1–0.2 m. Alt 100–900 m. WC		
 LASIOPOGON Cass.		8987000
E <i>debilis</i> (Thunb.) Hilliard		
NC, WC		
micropoides DC.		
N, NC, WC		
muscodoides (Desf.) DC.		
N, B?, NW, FS, NC, WC, EC		
 MACLEDIUM Cass.		9501010
Based on molecular studies, the genus <i>Macledium</i> was put in the tribe Dicomeae together with <i>Dicoma</i> and <i>Pleiotaxis</i> (Panero & Funk 2002. <i>Proceedings of the Biological Society of Washington</i> 115,4: 909–922).		
zeyheri (Sond.) S.Ortiz subsp. <i>zeyheri</i>		
LIM, NW, G, M, S, KZN		
 MACOWANIA Oliv.		9053000
pulvinaris N.E.Br.		
L, EC		
 E <i>MAIRIA</i> Nees		8883000
E <i>crenata</i> (Thunb.) Nees		
WC, EC		
 E <i>MARASMODES</i> DC.		9370000
E <i>dummeri</i> Bolus ex Hutch. (not <i>duemmeri</i>)		
 MICROGLOSSA DC.		8921000
E <i>mespilifolia</i> (Less.) B.L.Rob.		
KZN, WC, EC		
 MONOCULUS B.Nord.		9428020
(1) Nordenstam. 2006. <i>Compositae Newsletter</i> 44: 39–41.		
E <i>hyoseroides</i> (DC.) B.Nord.		
<i>Osteospermum hyoseroides</i> (DC.) Norl. (1)		
<i>Tripteris hyoseroides</i> DC. (1)		
Annual. Herb. Ht 0.2–0.7 m. Alt 50–900 m. NC, WC		
monstrosus (Burm.f.) B.Nord.		
<i>Calendula monstrosa</i> Burm.f. (1)		
<i>Osteospermum clandestinum</i> (Less.) Norl. (1)		
<i>Tripteris atropurpurea</i> Turcz. (1)		

MONOCULUS B.Nord. (cont.)		
monstrosus (Burm.f.) B.Nord. (cont.)		
<i>Tripteris clandestina</i> Less. (1)		
<i>Tripteris herbacea</i> E.Mey. ex DC. (1)		
<i>Tripteris hyoseroides</i> DC. var. <i>echinocarpa</i> DC. (1)		
<i>Tripteris scariosa</i> DC. (1)		
Annual. Herb, succulent. Ht 0.2–0.5 m. Alt 15–900 m. N, NC, WC		
NEPHROTHECA B.Nord. & Käl-	9427060	
lersjö		
(1) Nordenstam, Källersjö & Eldenäs. 2006. <i>Compositae Newsletter</i> 44: 32–37.		
ilicifolia (L.) B.Nord. & Källersjö		
<i>Gibbaria ilicifolia</i> (L.) Norl. (1)		
<i>Osteospermum ilicifolium</i> L. (1)		
Perennial. Shrub. Ht 0.2–0.5 m. Alt 300–1115 m. WC		
NIDORELLA Cass.	8925000	
auriculata DC.		
B, LIM, NW, G, M, S, FS, KZN, L, WC, EC		
foetida (L.) DC.		
WC		
NOLLETIA Cass.	8929000	
rarifolia (Turcz.) Steetz		
LIM, NW, G, M, FS, KZN, EC		
NORLINDHIA B.Nord.	9428030	
(1) Nordenstam. 2006. <i>Compositae Newsletter</i> 44: 41–44, 49.		
amplectens (Harv.) B.Nord.		
<i>Osteospermum amplexens</i> (Harv.) Norl. (1)		
<i>Tripteris amplexens</i> Harv. (1)		
<i>Tripteris amplexicaulis</i> acc. to DC. in part, not of (Thunb.) Less. (1)		
<i>Tripteris confusa</i> Bolus (1)		
<i>Tripteris gracilis</i> Hutch. (1)		
Annual. Herb. Ht 0.3–1.2 m. Alt 90–900 m. NC, WC		
aptera B.Nord.		
Annual. Herb. Ht up to 1 m. Alt ? N		
breviradiata (Norl.) B.Nord.		
<i>Osteospermum breviradiatum</i> Norl. (1)		
<i>Tripteris breviradiata</i> (Norl.) B.Nord. (1)		
Annual. Herb. Ht 0.2–0.5 m. Alt 100–200 m. N, NC, WC		
OLIGOCARPUS Less.	9424000	
(5) Nordenstam. 2006. <i>Compositae Newsletter</i> 44: 38, 45, 46.		
Delete E as this genus is no longer endemic to South Africa.		
A species of <i>Osteospermum</i> from St Helena was transferred to this genus.		
OSTEOSPERMUM L.	9427000	
amplectens (Harv.) Norl. = Norlindhia amplexens		
breviradiatum Norl. = Norlindhia breviradiata		
clandestinum (Less.) Norl. = Monoculus monstrosus		
cuspidatum DC. = Inuloides tomentosa		
grandidentatum DC.		
M, S, KZN, EC		
hyoseroides (DC.) Norl. = Monoculus hyoseroides		
ilicifolium L. = Nephrotheca ilicifolia		
polygaloides L. var. polygaloides		
WC, EC		
rigidum Aiton var. elegans (Bolus) Norl.		
NC, WC		
rigidum Aiton var. rigidum		
NC, WC		
tomentosum (L.f.) Norl. = Inuloides tomentosa		
PEGOLETTIA Cass.	9073000	
senegalensis Cass.		
N, B, LIM, NW, G, M, S, KZN, NC		
PENTZIA Thunb.	9366000	
peduncularis B.Nord.		
WC		
quinquefida (Thunb.) Less.		
NW, FS, NC, WC, EC		
PLEIOTAXIS Steetz	9499000	
Based on molecular studies, the genus <i>Pleiotaxis</i> was put in the tribe Dicomeae together with <i>Dicoma</i> and <i>Macledium</i> (Panero & Funk 2002. <i>Proceedings of the Biological Society of Washington</i> 115,4: 909–922).		
PLUCHEA Cass.	8941000	
dioscoridis (L.) DC, not <i>FSA</i>		
<i>Conyza kraussii</i> Sch.Bip. ex Walp. (7)		
dioscoridis <i>sensu</i> Merxmüller (1967) and Hilliard (1977)		
was wrongly applied to southern African material. Material previously identified as this species actually belongs to P. bojeri (DC.) Humbert		
PRINTZIA Cass.	9059000	
Based on molecular studies, the genus <i>Printzia</i> was moved from the tribe Gnaphalieae to the tribe Astereae (Bayer & Cross 2002. <i>Australian Journal of Botany</i> 50,6: 677–686.)		
polifolia (L.) Hutch.		
NC, WC, EC		
PSEUDOGNAPHALIUM Kirp.	8992050	
undulatum (L.) Hilliard & B.L.Burtt		
N, G, M, FS, KZN, L, NC, WC, EC		
PTERONIA L.	8862000	
camphorata (L.) L. var. longifolia Harv.		
WC, EC		
glaucia Thunb.		
N, B, NW, FS, NC, WC, EC		
mucronata DC.		
N, B, FS, NC, WC, EC		
punctata E.Phillips		
FS, NC, WC, EC		
undulata DC.		
NC, WC		
SONCHUS L.	9595000	
asper (L.) Hill subsp. asper		
N, B, LIM, NW, G, M, S, FS, KZN, L, NC, WC, EC		
asper (L.) Hill subsp. glaucescens (Jord.) Ball		
FS, WC, EC		
wilmsii R.E.Fr.		
LIM, NW, G, M, S, FS, KZN, L, EC		
SYNCARPHA DC.	9000010	
argentea (Thunb.) B.Nord.		
WC, EC		
ferruginea (Lam.) B.Nord.		
WC, EC		
staehelina (L.) B.Nord.		
NC, WC		

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