

A PROVISIONAL CHECKLIST OF THE CONTINENTAL AFRICAN ORCHIDACEAE. 4. ORCHIDOIDEAE. 3. SATYRIEAE

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Abstract: A checklist of the continental African Satyriaceae (Orchidaceae, Orchidoideae) is provided. 81 species in four genera are listed.

Key words: Magnoliophyta, Orchidaceae, Orchidoideae, Satyriaceae, checklist, continental Africa

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INTRODUCTION

The tribe Satyriaceae is almost endemic to continental Africa. Only seven species of *Satyrium* Sw. occur in Madagascar and South-East Asia (see Kurzweil & Linder 1998, 2001; Du Puy *et al.* 1999). The orchids of tribe Satyriaceae in continental Africa comprise four genera and 81 species. The genera listed in alphabetical order are: *Aviceps* Lindl., *Pachites* Lindl., *Satyridium* Lindl. and *Satyrium* Sw.

LIST OF GENERA AND SPECIES

Tribe SATYRIEAE (Schltr.) Szlach.

Folia Geobot. Phytotax. **26**: 326. 1991.

Subtribe SATYRIINAE Schltr.

Notizbl. Bot. Gart. Berlin-Dahlem **9**: 568. 1926.

The subtribe includes four genera (Szlachetko 1995).

Aviceps Lindl.

Gen. Sp. Orchid. Pl.: 345. 1838.

A monotypic genus from South Africa. According to Hall (1999) it should be included to *Satyrium* Sw.

1. *Aviceps pumila* (Thunb.) Lindl.

Gen. Sp. Orchid. Pl.: 346. 1838.

Satyrium pumilum Thunb., Prodr. Pl. Cap.: 6. 1794.

Diplecthrum pumilum (Thunb.) Pers., Synop. Pl.: 509. 1807.

DISTRIBUTION. R.S.A. (N and W Cape) (Bulus 1893; Durand & Schinz 1895; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

Pachites Lindl.

Gen. Sp. Orchid. Pl.: 301. 1838.

A small genus with two species occurring in South Africa (Hall 1999).

1. *Pachites appressa* Lindl.

Gen. Sp. Orchid. Pl.: 301. 1835.

DISTRIBUTION. R.S.A. (W Cape) (Durand & Schinz 1895; Stewart *et al.* 1982; Reid 1993; Linder & Hall 1999).

2. *Pachites bodkinii* Bolus

Icon. Orchid. Austro-Afr. **1**: t. 26. 1893.

DISTRIBUTION. R.S.A. (W Cape) (Bulus 1893; Lewis 1950; Stewart *et al.* 1982; Reid 1993; Linder & Hall 1999).

***Satyridium* Lindl.**

Gen. Sp. Orchid. Pl.: 345. 1838.

A monotypic genus restricted to South Africa. According to Hall (1999) *Satyridium* should be included to *Satyrium* Sw.

1. *Satyridium rostratum* Lindl.

Gen. Sp. Orchid. Pl.: 345. 1835.

Satyrium rhynchanthum Bolus, J. Linn. Soc., Bot. **19**: 342. 1882.

DISTRIBUTION. R.S.A. (W Cape) (Durand & Schinz 1895; Bolus 1913; Lewis 1950; Stewart *et al.* 1982; Reid 1993; Hall 1999).

***Satyrium* Sw.**

Kongl. Vetensk. Acad. Nya Handl. ser. 2, **21**: 214. 1800, *nom. conserv.*

Diplecthrum Pers., Synop. Pl.: 508. 1807.

Hipporkis Thouars, Nouv. Bull. Sci. Soc. Philom. Paris **1**: 317. 1809.

Hipporchis Thouars, Orchid. Iles Austr. Afr., tab. prem. gen. & t. 21. 1822.

A genus of *ca* 88 species (but probably less), occurring mostly on the African mainland, predominantly South African, with five species in Madagascar, Comoro Is. and Mascarenes and two in Asia (Summerhayes 1968a; Kurzweil & Linder 1998, 2001).

1. *Satyrium aberrans* Summerh.

Kew Bull. **20**(2): 182, fig. 6. 1966.

DISTRIBUTION. Tanzania and Zimbabwe (Summerhayes 1966, 1968a; la Croix & Cribb 1995).

2. *Satyrium acuminatum* Lindl.

Gen. Sp. Orchid. Pl.: 339. 1838.

DISTRIBUTION. R.S.A. (W and E Cape) (Durand & Schinz 1895; Bolus 1911; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

3. *Satyrium aethiopicum* Summerh.

Kew Bull. **13**(2): 257. 1958.

Satyrium bifolium A. Rich., Ann. Sci. Nat. ser. 2, **14**: 273, t. 18, fig. X 1–2. 1840, *non* L. 1753.

DISTRIBUTION. Ethiopia (Durand & Schinz 1895; Rolfe 1897; Summerhayes 1958; Cufodontis 1972; Cribb & Thomas 1997; Cribb *et al.* 2002).

4. *Satyrium afromontanum* la Croix & P. J. Cribb

Kew Bull. **48**(2): 361. 1993.

Satyrium aberrans auct. *non* Summerh. 1966.

DISTRIBUTION. Malawi (la Croix *et al.* 1991; la Croix & Cribb 1993, 1995).

5. *Satyrium amblyosaccos* Schltr.

Bot. Jahrb. Syst. **53**: 535. 1915.

Satyrium papillosum Schltr. in R. E. Fr., Wiss. Ergebn. Schwed. Rhod.-Kongo-Exped. 1911–12, **1**: 242, t. 18, fig. 1. 1916, *non* Lindl., *nom. illegit.*

DISTRIBUTION. Tanzania, D.R.C. (Lacs Edouard et Kivu, Haut-Katanga), Burundi, Rwanda, Zambia and Malawi (Summerhayes 1968a; Williamson 1977; Geerinck 1984, 1988; la Croix *et al.* 1991; la Croix & Cribb 1995).

6. *Satyrium anomalum* Schltr.

Bot. Jahrb. Syst. **24**: 424. 1897.

Satyrium minax Rolfe, F.T.A. **7**: 268. 1897.

DISTRIBUTION. Tanzania, Zambia, Malawi and Zimbabwe (Durand & Schinz 1895; Rolfe 1897; Summerhayes 1968a; Williamson 1977; la Croix *et al.* 1991; la Croix & Cribb 1995).

7. *Satyrium bicallosum* Thunb.

Prodr. Pl. Cap.: 6. 1794.

Diplecthrum bicallosum (Thunb.) Pers., Synop. Pl.: 509. 1807.

Satyrium bicallosum Thunb. var. *ocellatum* Bolus, Trans. S. African Philos. Soc. **5**: 129. 1888.

Satyrium bicallosum Thunb. var. *thunbergianum* Bolus, Trans. S. African Philos. Soc. **5**: 129. 1888.

DISTRIBUTION. R.S.A. (W Cape) (Durand & Schinz 1895; Bolus 1913; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

8. *Satyrium bicorne* Thunb.

Prodr. Pl. Cap.: 6. 1794.

Satyrium cucullatum Sw., Kongl. Vetensk. Acad Nya Handl. ser. 2, **21**: 216. 1800

DISTRIBUTION. R.S.A. (N and W Cape) (Durand & Schinz 1895; Bolus 1911; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

9. *Satyrium brachypetalum* A. Rich.

Tent. Fl. Abyss. **2**: 299. 1850.

DISTRIBUTION. Ethiopia and Yemen (Durand & Schinz 1895; Rolfe 1897; Cufodontis 1972; Cribb 1979; Cribb & Thomas 1997).

10. *Satyrium bracteatum* (L.f.) Thunb.

Prodr. Pl. Cap.: 6. 1794.

Ophrys bracteata L.f., Suppl. Pl.: 403. 1781.

Diplecthrum bracteatum (L.f.) Pers., Synop. Pl.: 509. 1807.

Satyrium lineatum Lindl., Gen. Sp. Orchid. Pl.: 343. 1838.

Satyrium cordifolium Lindl., Gen. Sp. Orchid. Pl.: 344. 1838.

Satyrium pictum Lindl., Gen. Sp. Orchid. Pl.: 344. 1838.

Satyrium bracteatum (L.f.) Thunb. var. *lineatum* (Lindl.) Sond., Linnæa **19**: 88. 1847.

Satyrium bracteatum (L.f.) Thunb. var. *glandulosum* Sond., Linnæa **19**: 89. 1847.

Satyrium bracteatum (L.f.) Thunb. var. *latebracteatum* Sond., Linnæa **19**: 89. 1847.

Satyrium saxicolum Bolus, J. Linn. Soc., Bot. **20**: 474. 1884.

Satyrium bracteatum (L.f.) Thunb. var. *nanum* Bolus, Trans. S. African Philos. Soc. **5**: 131, t. 32B. 1888.

Satyrium paludicolum Schltr., Bot. Jahrb. Syst. **20**, Beibl. 50: 37. 1895.

Satyrium bracteatum (L.f.) Thunb. var. *pictum* (Lindl.) Schltr., Bot. Jahrb. Syst. **31**: 191. 1901.

Satyrium bracteatum (L.f.) Thunb. var. *saxicolum* (Bolus) Schltr., Bot. Jahrb. Syst. **31**: 191. 1901.

Satyrium fanniniae Rolfe, Fl. Cap. **5**(3): 150. 1912.

Satyrium bowiei Rolfe, Fl. Cap. **5**(3): 153. 1912.

Satyrium dregei Rolfe, Fl. Cap. **5**(3): 153. 1912.

DISTRIBUTION. R.S.A. (W and E Cape, Kwa-Zulu-Natal, Mpumalanga, Northern Province) and Lesotho (Durand & Schinz 1895; Bolus 1913; Lewis 1950; Jacot Guillarmod 1971; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

11. *Satyrium breve* Rolfe

F.T.A. **7**: 274. 1897.

Satyrium paludosa sensu Schltr., Bot. Jahrb. Syst. **31**: 183. 1901, *pro parte, non* Rchb.f.

Satyrium breve Rolfe var. *minor* Summerh., Bot. Not. **1937**: 189. 1937.

DISTRIBUTION. Ethiopia, Cameroun, D.R.C. (Haut-Katanga), Burundi, Rwanda, Tanzania, Zambia, Malawi, Mozambique and Zimbabwe (Rolfe 1897; Summerhayes 1968a; Cufodontis 1972; Schelpe 1976b; Williamson 1977; Geerinck 1984, 1988; la Croix *et al.* 1991; la Croix & Cribb 1995; Cribb & Thomas 1997; Szlachetko & Olszewski 1998).

12. *Satyrium buchananii* Schltr.

Bot. Jahrb. Syst. **24**: 422. 1897.

Satyrium longissimum Rolfe, F.T.A. **7**: 267. 1897.

Satyrium nyassense Kraenzl., Bot. Jahrb. Syst. **28**: 178. 1900.

Satyrium stolzianum Kraenzl., Bot. Jahrb. Syst. **33**: 57. 1902.

Satyrium kassneranum Kraenzl., Bot. Jahrb. Syst. **51**: 381. 1914.

DISTRIBUTION. D.R.C. (Kasai, Haut-Katanga), Tanzania, Angola, Zambia, Malawi and Zimbabwe (Durand & Schinz 1895; Rolfe 1897; Summerhayes 1968a; Schelpe 1976a; Williamson 1977; Geerinck 1984; la Croix *et al.* 1991; Croix & Cribb 1995).

13. *Satyrium candidum* Lindl.

Bot. Reg. **24**, Misc.: 82. 1838.

Satyrium utriculatum Sond., Linnæa **19**: 84. 1847.

Satyrium candidum Lindl. var. *minus* Sond., Linnæa **19**: 85. 1847.

DISTRIBUTION. R.S.A. (W Cape) (Durand & Schinz 1895; Bolus 1911; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

14. *Satyrium carneum* (Dryand.) Sims

Bot. Mag. **37**: t. 1512. 1812.

Orchis carnea Dryand., Hort. Kew, ed. 1, **3**: 294. 1789.

DISTRIBUTION. R.S.A. (W Cape) (Durand & Schinz 1895; Bolus 1911; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

15. *Satyrium carsonii* Rolfe

F.T.A. **7**: 265. 1897.

Satyrium leucanthum Schltr., Bot. Jahrb. Syst. **53**: 525. 1915.

Satyrium nigericum Hutch., Bull. Misc. Inform. Kew **1921**(10): 402. 1921.

DISTRIBUTION. Nigeria, Cameroun, D.R.C. (Bas-Katanga, Lac Albert, Haut-Katanga), Burundi, Uganda, Kenya, Tanzania, Zambia and Malawi (Rolfe 1897; Summerhayes 1966, 1968a, b; Piers 1968; Williamson 1977; Tang & Cribb 1983; Geerinck 1984; la Croix *et al.* 1991; Szlachetko & Olszewski 1998; la Croix & Cribb 1995).

16. *Satyrium chlorocorys* Rolfe

F.T.A. **7**: 268. 1897.

Satyrium kraenzlinii Rolfe, F.T.A. **7**: 269. 1897.

Satyrium brachypetalum sensu Kraenzl., Orchid. Gen. Sp. **1**: 688. 1899, *pro parte, non* A. Rich.

Satyrium volkensii sensu Schltr., Bot. Jahrb. Syst. **31**: 180. 1901.

Satyrium coriophoroides sensu Schltr., Bot. Jahrb. Syst. **31**: 180. 1901, *pro parte, non* A. Rich.

Satyrium fallax Schltr., Bot. Jahrb. Syst. **53**: 532. 1915.

DISTRIBUTION. Uganda, Tanzania, Zambia, Malawi, Mozambique and Zimbabwe (Durand & Schinz 1895; Rolfe 1897; Summerhayes 1968a; Schelpe 1976b; Williamson 1977; la Croix *et al.* 1991; la Croix & Cribb 1995).

17. *Satyrium compactum* Summerh.

Kew Bull. **20**(2): 179. 1966.

DISTRIBUTION. Zambia and Zimbabwe (Summerhayes 1966; Williamson 1977; la Croix & Cribb 1995).

18. *Satyrium comptum* Summerh.

Kew Bull. **20**(2): 174, fig. 4. 1966.

DISTRIBUTION. Tanzania (Summerhayes 1966, 1968a).

19. *Satyrium confusum* Summerh.

Kew Bull. **20**(2): 176, fig. 5. 1966.

Satyrium kirkii sensu Rolfe, F.T.A. **7**: 271. 1897, *pro parte, quoad* specim. Kirk, *non* Rolfe *s. stricto*.

DISTRIBUTION. Tanzania and Malawi (Rolfe 1897; Summerhayes 1966, 1968a; la Croix *et al.* 1991; la Croix & Cribb 1995).

20. *Satyrium coriifolium* Sw.

Kongl. Vetensk Acad. Nya Handl. ser. 2, **21**: 216. 1800.
Diplethrum coriifolium (Sw.) Pers., Synop. Pl.: 509. 1807.

Satyrium aureum Paxton, Paxton's Mag. Bot. **15**: 31. 1849.

Satyrium coriifolium Sw. var. *maculatum* Hook.f., Bot. Mag. **119**: t. 7289. 1893.

DISTRIBUTION. R.S.A. (W and E Cape) (Durand & Schinz 1895; Bolus 1911; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

21. *Satyrium coriophoroides* A. Rich.

Ann. Sci. Nat., ser 2, **14**: 274, t. 18/XI, 1–5. 1840.

Satyrium gillettii De Wild., Ann. Mus. Congo Belge, Bot., sér. 5, **1**: 110. 1904.

Satyrium riparium auct. *non* Rchb.f.

DISTRIBUTION. Sudan, Ethiopia, Cameroun, D.R.C. (Bas-Congo, Lac Albert, Lacs Edouard et Kivu, Haut-Katanga), Burundi, Rwanda, Uganda, Kenya, Tanzania, Zambia, Malawi and Zimbabwe (Durand & Schinz 1895; Rolfe 1897; Robyns & Tournay 1955; Andrews 1956; Piers 1968; Summerhayes 1968a, b; Cufodontis 1972; Wickens 1976; Williamson 1977; Geerinck 1984; la Croix *et al.* 1991; Cribb & Thomas 1997; Szlachetko & Olszewski 1998).

NOTE. According to Geerinck (1984) and la Croix and Cribb (1995) this species is inseparable from *S. sacculatum* (Rendle) Rolfe and they

joined them together under the priority name *S. coriophoroides*. Distribution of this species needs verification.

22. *Satyrium crassicaule* Rendle

J. Bot. **33**: 295. 1895.

Satyrium niloticum Rendle, J. Bot. **33**: 296. 1895.

Satyrium goetzenianum Kraenzl., Bot. Jahrb. Syst. **24**: 506. 1898.

Satyrium mystacinum Kraenzl., Bot. Jahrb. Syst. **24**: 506. 1898.

Satyrium fischerianum Kraenzl., Bot. Jahrb. Syst. **24**: 507. 1898.

Satyrium kirkii Rolfe, F.T.A. **7**: 271. 1897, *pro parte*.

Satyrium usambarae Kraenzl., Bot. Jahrb. Syst. **33**: 56. 1902.

Satyrium brachypetalum auct. non A. Rich.

DISTRIBUTION. Ethiopia, Nigeria, Cameroun, D.R.C. (Ubangi-Uele, Lac Albert, Lacs Edouard et Kivu, Haut-Katanga), Burundi, Rwanda, Uganda, Kenya, Tanzania, Zambia and Malawi (Durand & Schinz 1895; Rolfe 1897; Robyns & Tournay 1955; Piers 1968; Summerhayes 1966, 1968a, b; Cufodontis 1972; Williamson 1977; Tang & Cribb 1983; Geerinck 1984, 1988; la Croix *et al.* 1991; la Croix & Cribb 1995; Cribb & Thomas 1997; Szlachetko & Olszewski 1998).

23. *Satyrium cristatum* Sond.

Linnaea **19**: 84. 1847.

DISTRIBUTION. R.S.A. (E Cape, KwaZulu-Natal, Free State, Mpumalanga, Gauteng, Northern Province, North West), Lesotho and Swaziland (Jacot Guillarmod 1971; Compton 1976; Hall 1982, 1999; Stewart *et al.* 1982; Kemp 1983; Reid 1993).

– var. *cristatum*

Satyrium pentadactylum Kraenzl., Bot. Jahrb. Syst. **24**: 506. 1898.

DISTRIBUTION. R.S.A. (E Cape, KwaZulu-Natal, Free State, Mpumalanga, Gauteng, Northern Province, North West), Lesotho and Swaziland (Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

– var. *longilabiatum* A. V. Hall

Contr. Bolus Herb. **10**: 94. 1982.

DISTRIBUTION. R.S.A. (E Cape, KwaZulu-Natal, Free State, Mpumalanga, Gauteng, Northern Province, North West), Lesotho and Swaziland (Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

24. *Satyrium ecalcaratum* Schltr. in R. E. Fr.

Wiss. Ergebn. Schwed. Rhod.-Kongo-Exped. 1911–1912, **1**: 242. 1916.

DISTRIBUTION. D.R.C. (Lacs Edouard et Kivu), Rwanda, Uganda, Tanzania and Malawi (Robyns & Tournay 1955; Summerhayes 1968a; Geerinck 1984, 1988; la Croix *et al.* 1991; la Croix & Cribb 1995).

25. *Satyrium elongatum* Rolfe

F.T.A. **7**: 268. 1897.

DISTRIBUTION. Tanzania, Zambia and Zimbabwe (Rolfe 1897; Summerhayes 1968a; Williamson 1977; la Croix & Cribb 1995).

26. *Satyrium erectum* Lindl.

Kongl. Vetensk. Acad. Nya Handl. ser. 2, **21**: 216. 1800.

Diplechthrum erectum (Sw.) Pers., Synop. Pl.: 509. 1807.

Satyrium pustulatum Lindl. in F. A. Bauer, Illustr. Orchid. Pl.: t. 12–14. 1832.

Satyrium papillosum Lindl., Gen. Sp. Orchid. Pl.: 341. 1838.

DISTRIBUTION. R.S.A. (N, W and E Cape) and ?Lesotho (Durand & Schinz 1895; Bolus 1911; Lewis 1950; Jacot Guillarmod 1971; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

NOTE. Hall (1999) did not confirm citation from Lesotho.

27. *Satyrium fimbriatum* Summerh.

Bull. Misc. Inform. Kew **1932**(7): 343. 1932.

DISTRIBUTION. Sudan, Uganda, Kenya and Tanzania (Summerhayes 1932, 1968a; Andrews 1956; Piers 1968).

28. *Satyrium flavum* la Croix

Kew Bull. **48**(2): 364. 1993.

DISTRIBUTION. Mozambique and Zimbabwe (la Croix & Cribb 1993, 1995).

29. *Satyrium foliosum* Sw.

Kongl. Vetensk. Acad. Nya Handl. ser. 2, **21**: 216. 1800.

DISTRIBUTION. R.S.A. (W Cape) (Durand & Schinz 1895; Bolus 1911; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

30. *Satyrium hallackii* Bolus

J. Linn. Soc., Bot. **20**: 476. 1884.

DISTRIBUTION. Malawi, Zimbabwe, R.S.A. (W and E Cape, KwaZulu-Natal, Mpumalanga, Free State, Gauteng, North West, Northern Province), Lesotho and Swaziland (Durand & Schinz 1895; Bolus 1913; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; la Croix *et al.* 1991; Reid 1993; la Croix & Cribb 1995).

– subsp. *hallackii*

Satyrium foliosum Sw. var. *helonioides* Lindl., Gen. Sp. Orchid. Pl.: 337. 1838.

DISTRIBUTION. R.S.A. (W and E Cape) (Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

– subsp. *ocellatum* (Bolus) A.V. Hall

Contr. Bolus. Herb. **10**: 54. 1982.

Satyrium ocellatum Bolus, Icon. Orchid. Austro-Afr. **1**: t. 23. 1893, non *quoad* specim. *Flanagan 527*.

Satyrium nutans Kraenzl., Bot. Jahrb. Syst. **24**: 507. 1898.

DISTRIBUTION. Malawi, Zimbabwe, R.S.A. (E Cape, KwaZulu-Natal, Mpumalanga, Free State, Gauteng, North West, Northern Province), Lesotho and Swaziland (Bolus 1893; Jacot Guillarmod 1971; Compton 1976; Hall 1982, 1999; Stewart *et al.* 1982; Kemp 1983; Reid 1993).

31. *Satyrium humile* Lindl.

Gen. Sp. Orchid. Pl.: 339. 1838.

Satyrium ochroleucum Bolus, J. Linn. Soc., Bot. **22**: 66. 1885.

DISTRIBUTION. R.S.A. (W Cape) (Durand & Schinz 1895; Bolus 1913; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

32. *Satyrium ivantalae* Rchb.f.

Flora **48**: 84. 1865.

DISTRIBUTION. Angola (Durand & Schinz 1895; Rolfe 1897; Schelpe 1976a).

33. *Satyrium johnsonii* Rolfe

F.T.A. **7**: 265. 1897.

DISTRIBUTION. Tanzania and ?Mozambique (Rolfe 1897; Summerhayes 1968a, Schelpe 1976b).

NOTE. La Croix and Cribb (1995) did not confirm citation from Mozambique.

34. *Satyrium kermesinum* Kraenzl.

Orchid. Gen. Sp. **1**: 945. 1901.

DISTRIBUTION. Tanzania (Summerhayes 1968a).

35. *Satyrium kitimboense* Kraenzl.

Bot. Jahrb. Syst. **51**: 380. 1914.

DISTRIBUTION. D.R.C. (Kasai, Bas-Katanga, Haut-Katanga), Burundi, Angola, Tanzania, Zambia, Malawi, Mozambique and ?Zimbabwe (Summerhayes 1968a; Williamson 1977; Geerinck 1984; la Croix & Cribb 1995).

NOTE. La Croix and Cribb (1995) did not confirm citation from Zimbabwe.

36. *Satyrium ligulatum* Lindl.

Gen. Sp. Orchid. Pl.: 342. 1838.

Satyrium emarcidum Bolus, J. Linn. Soc., Bot. **22**: 67. 1885.

DISTRIBUTION. R.S.A. (N, W and E Cape, KwaZulu-Natal, Free State) (Durand & Schinz 1895; Bolus 1913; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

37. *Satyrium longicauda* Lindl.

Gen. Sp. Orchid. Pl.: 337. 1838

DISTRIBUTION. Tanzania, Malawi, Mozambique, Zimbabwe, R.S.A. (E Cape, KwaZulu-Natal, Mpumalanga, Free State, Northern Province), Lesotho and Swaziland (Durand & Schinz 1895; Bolus 1896; Summerhayes 1968a; Jacot Guillarmod 1971; Compton 1976; Hall 1982, 1999; Stewart *et al.* 1982; Kemp 1983; Reid 1993).

– var. *longicauda*

Satyrium platystigma Schltr., Ann. Transvaal Mus. **10**: 245. 1924.

DISTRIBUTION. Tanzania, Mozambique, Zimbabwe, R.S.A. (E Cape, KwaZulu-Natal, Mpumalanga, Free State, Northern Province), Lesotho and Swaziland (Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

– var. *jacottetianum* (Kraenzl.) A. V. Hall

Contr. Bolus Herb. **10**: 75. 1982.

Satyrium jacottetianum Kraenzl., Vierteljahrsschr. Naturf. Ges. Zürich **60**: 390. 1915.

DISTRIBUTION. R.S.A. (E Cape, KwaZulu-Natal, Mpumalanga, Free State) and Lesotho (Jacot Guillarmod 1971; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

38. *Satyrium longicolle* Lindl.

Gen. Sp. Orchid. Pl.: 335. 1838.

Satyrium maculatum Burch. *ex* Lindl., Gen. Sp. Orchid. Pl.: 337. 1838, *non* Densf. 1799.

DISTRIBUTION. R.S.A. (W and E Cape) (Durand & Schinz 1895; Bolus 1893; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

39. *Satyrium lupulinum* Lindl.

Gen. Sp. Orchid. Pl.: 338. 1838.

Satyrium pallidiflorum Schltr., Bot. Jahrb. Syst. **20**, Beibl. 50: 15. 1895.

DISTRIBUTION. R.S.A. (W and E Cape) (Durand & Schinz 1895; Bolus 1896; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

40. *Satyrium macrophyllum* Lindl.

Gen. Sp. Orchid. Pl.: 338. 1838.

Satyrium cheirophorum Rolfe, F.T.A. **7**: 265. 1897.

Satyrium buchananii Rolfe, F.T.A. **7**: 270. 1897, *non* Schltr. 1897.

Satyrium speciosum Rolfe, F.T.A. **7**: 574. 1897.

Satyrium morrumbalaense De Wild., Pl. Nov. Horti Then. **1**: t. 14. 1904.

Satyrium brachyrhynchum Schltr., Bot. Jahrb. Syst. **53**: 529. 1915.

DISTRIBUTION. D.R.C. (Haut-Katanga), Kenya, Tanzania, Malawi, Mozambique, Zimbabwe, R.S.A. (E Cape, KwaZulu-Natal) and Swaziland (Durand & Schinz 1895; Bolus 1896; Rolfe 1897; Piers 1968; Summerhayes 1968a; Compton 1976; Schelpe 1976b; Hall 1982, 1999; Stewart *et al.* 1982; Kemp 1983; Geerinck 1984; la Croix *et al.* 1991; Reid 1993; la Croix & Cribb 1995).

41. *Satyrium mechowianum* Kraenzl.

Bot. Jahrb. Syst. **17**: 65. 1893.

DISTRIBUTION. Angola (Rolfe 1897; Schelpe 1976a).

42. *Satyrium membranaceum* Sw.

Kongl. Vetensk. Acad. Nya Handl. ser. 2, **21**: 216. 1800.
Satyrium jacottetiae Kraenzl., Vierteljahrsschr. Naturf. Ges. Zürich **74**: 102. 1929.

DISTRIBUTION. R.S.A. (W and E Cape) (Durand & Schinz 1895; Bolus 1911; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

43. *Satyrium microcorys* Schltr.

Bot. Jahrb. Syst. **53**: 533. 1915.

DISTRIBUTION. Tanzania, Zambia and Malawi (Summerhayes 1968a; la Croix *et al.* 1991; la Croix & Cribb 1995).

44. *Satyrium microrrhynchum* Schltr.

Bot. Jahrb. Syst. **20**, Beibl. 50: 14. 1895.

DISTRIBUTION. R.S.A. (E Cape, KwaZulu-Natal, Mpumalanga) and Lesotho (Bolus 1911;

Jacot Guillarmod 1971; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

45. *Satyrium mirum* Summerh.

Kew Bull. **20**(2): 170, fig. 3. 1966.

DISTRIBUTION. Zimbabwe (Summerhayes 1966; la Croix & Cribb 1995).

46. *Satyrium miserum* Kraenzl.

Bot. Jahrb. Syst. **30**: 284. 1901.

DISTRIBUTION. Tanzania (Summerhayes 1968a).

47. *Satyrium monadenum* Schltr.

Bot. Jahrb. Syst. **53**: 527. 1915.

DISTRIBUTION. Tanzania, Zambia and Malawi (Summerhayes 1968a; Williamson 1977; Croix *et al.* 1991; la Croix & Cribb 1995).

48. *Satyrium monophyllum* Kraenzl.

Bot. Jahrb. Syst. **30**: 284. 1901.

DISTRIBUTION. Tanzania (Summerhayes 1968a).

49. *Satyrium muticum* Lindl.

Gen. Sp. Orchid. Pl.: 344. 1838.

DISTRIBUTION. R.S.A. (W Cape) (Durand & Schinz 1895; Bolus 1893; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

50. *Satyrium neglectum* Schltr.

Bot. Jahrb. Syst. **20**, Beibl. 50: 15. 1895.

DISTRIBUTION. Tanzania, Zambia, Mozambique, Zimbabwe, R.S.A. (E Cape, KwaZulu-Natal, Mpumalanga, Free State, Northern Province), Lesotho and Swaziland (Rolfe 1897; Bolus 1911; Summerhayes 1966, 1968a; Jacot Guillarmod 1971; Schelpe 1976b; Williamson 1977; Hall 1982, 1999; Stewart *et al.* 1982; Kemp 1983; la Croix *et al.* 1991; Reid 1993; la Croix & Cribb 1995).

NOTE. Some of authors did not distinguish subspecies and varieties. Distribution of these taxa need verification.

– subsp. *neglectum*

– var. *neglectum*

Satyrium densum Rolfe, F.T.A. **7**: 270. 1897.

Satyrium colliferum Schltr., Bot. Jahrb. Syst. **53**: 528. 1915, *pro parte*.

DISTRIBUTION. Tanzania, Malawi, Mozambique, Zimbabwe and R.S.A. (E Cape, KwaZulu-Natal, Free State, Mpumalanga, Northern Province), Lesotho and Swaziland (Rolfe 1897; Summerhayes 1968a; Hall 1982, 1999; Stewart *et al.* 1982; Kemp 1983; Reid 1993; la Croix & Cribb 1995).

– var. *brevicalcar* Summerh.

Kew Bull. **20**(2): 174. 1966.

Satyrium colliferum sensu Schltr., Bot. Jahrb. Syst. **53**: 528. 1915, *quoad Stolz 118 and 2456 tantum*.

Satyrium papyretorum Schltr. in Fries, Wiss. Ergebn. Schwed. Rhod.-Kongo-Exped.: 243, t. 18, fig. 2. 1916.

DISTRIBUTION. Tanzania and Zambia (Summerhayes 1966, 1968a; la Croix & Cribb 1995).

– subsp. *woodii* (Schltr.) A. V. Hall

Contr. Bolus Herb. **10**: 86. 1982.

Satyrium woodii Schltr., Bot. Jahrb. Syst. **20**, Beibl. 50: 16. 1895.

Satyrium beyrichianum Kraenzl., Bot. Jahrb. Syst. **24**: 508. 1898.

DISTRIBUTION. Tropical Africa and R.S.A. (E Cape, KwaZulu-Natal) (Bolus 1911; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

51. *Satyrium odorum* Sond.

Linnaea **19**: 86. 1847.

DISTRIBUTION. R.S.A. (W Cape) (Durand & Schinz 1895; Bolus 1911; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

52. *Satyrium oliganthum* Schltr.

Bot. Jahrb. Syst. **53**: 534. 1915.

Satyrium paludosum Rchb.f. var. *parvibracteatum* Schltr. in Warb., Kunene-Samb. Exped. Baum.: 209. 1903.

DISTRIBUTION. Tanzania, Angola, Zambia, Malawi and Zimbabwe (Schelpe 1976a; Williamson 1977; la Croix *et al.* 1991; la Croix & Cribb 1995).

53. *Satyrium orbiculare* Rolfe

F.T.A. 7: 266. 1897.

DISTRIBUTION. D.R.C. (Haut-Katanga), Burundi, Rwanda, Tanzania, Zambia and Malawi (Rolfe 1897; Summerhayes 1968a; Williamson 1977; Geerinck 1984, 1988; la Croix *et al.* 1991; la Croix & Cribb 1995; Geerinck & Arbonnier 1996).

54. *Satyrium outeniquense* Schltr.

Bot. Jahrb. Syst. 24: 421. 1897.

DISTRIBUTION. R.S.A. (W and E Cape) (Bolus 1896; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

55. *Satyrium pallens* S. Johnson & Kurzweil

Bot. J. Linn. Soc. 127(3): 191. 1998.

DISTRIBUTION. R.S.A. (W Cape) (Johnson & Kurzweil 1998; Hall 1999).

56. *Satyrium paludosum* Rchb.f.

Flora 48: 182. 1865.

Satyrium welwitschii Rchb.f., Flora 48: 182. 1862.

Satyrium mechowii Rchb.f., Flora 65: 531. 1882.

Satyrium sp. nov. sensu Piers, Orchid E. Afr.: 48. 1959.

DISTRIBUTION. D.R.C. (Haut-Katanga), Kenya, Angola, Zambia, Malawi and Zimbabwe (Durand & Schinz 1895; Rolfe 1897; Piers 1968; Summerhayes 1968a; Schelpe 1976a; Williamson 1977; Geerinck 1984; la Croix *et al.* 1991; la Croix & Cribb 1995).

57. *Satyrium parviflorum* Sw.

Kongl. Vetensk. Acad. Nya Handl. ser. 2, 21: 216. 1800.

Diplechthrum parviflorum (Sw.) Pers., Synop. Pl.: 509. 1807.

Satyrium densiflorum Lindl., Gen. Sp. Orchid. Pl.: 340. 1838.

Satyrium cassideum Lindl., Gen. Sp. Orchid. Pl.: 341. 1838.

Satyrium eriostomum Lindl., Gen. Sp. Orchid. Pl.: 342. 1838.

Satyrium lydenburgense Rchb.f., Flora 64: 328. 1881.

Satyrium aphyllum Schltr., Bot. Jahrb. Syst. 24: 424. 1897.

Satyrium wilmsianum Kraenzl., Bot. Jahrb. Syst. 24: 505. 1898.

Satyrium tenuifolium Kraenzl., Bot. Jahrb. Syst. 24: 505. 1898.

DISTRIBUTION. ?Mozambique, R.S.A. (W and E Cape, KwaZulu-Natal, Free State, Gauteng, Northern Province), Lesotho and Swaziland (Durand & Schinz 1895; Bolus 1911; Jacot Guillarmod 1971; Compton 1976; Schelpe 1976b; Hall 1982, 1999; Stewart *et al.* 1982; Kemp 1983; Reid 1993).

NOTE. La Croix and Cribb (1995) did not confirm citation from Mozambique.

58. *Satyrium princeae* Kraenzl.

Bot. Jahrb. Syst. 33: 56. 1902.

Satyrium unifolium Schltr., Bot. Jahrb. Syst. 53: 525. 1915.

DISTRIBUTION. Tanzania, Zambia and Malawi (Summerhayes 1968a; Williamson 1977; la Croix *et al.* 1991; la Croix & Cribb 1995).

59. *Satyrium princeps* Bolus

Hooker's Icon. Pl. 18: t. 1729. 1888.

DISTRIBUTION. R.S.A. (W and E Cape) (Durand & Schinz 1895; Bolus 1911; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

60. *Satyrium pulchrum* S. Johnson & Kurzweil

Bot. J. Linn. Soc. 127(3): 192. 1998.

DISTRIBUTION. R.S.A. (W Cape) (Johnson & Kurzweil 1998; Hall 1999).

61. *Satyrium pygmaeum* Sond.

Linnaea 19: 86. 1847.

Satyrium pentherianum Kraenzl., Orchid. Gen. Sp. 1: 944. 1901.

Satyrium schlechteri Rolfe, Fl. Cap. 5(3): 168. 1912.

DISTRIBUTION. R.S.A. (W Cape) (Bolus 1893; Durand & Schinz 1895; Hall 1982, 1999; Stewart *et al.* 1982).

62. *Satyrium retusum* Lindl.

Gen. Sp. Orchid. Pl.: 343. 1838.

Satyrium bracteatum Lindl., Gen. Sp. Orchid. Pl.: 342. 1838., *non* Thunb. 1794.

Satyrium lindleyanum Bolus, J. Linn. Soc., Bot. **20**: 474. 1884.

Satyrium debile Bolus, J. Linn. Soc., Bot. **22**: 67. 1885.

DISTRIBUTION. R.S.A. (W and E Cape) (Durand & Schinz 1895; Bolus 1911; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

63. *Satyrium rhodanthum* Schltr.

Bot. Jahrb. Syst. **40**: 92. 1907.

Satyrium longicauda Lindl. × *S. neglectum* Schltr. subsp. *woodii* (Schltr.) A. V. Hall., Contr. Bolus Herb. **10**: 135. 1982.

DISTRIBUTION. R.S.A. (KwaZulu-Natal) (Hall 1982, 1999; Stewart *et al.* 1982).

NOTE. The hybrid status is rather doubtful as the putative parent species are not found on the present sites of *S. rhodanthum* (Hall 1999).

64. *Satyrium rhynchantoides* Schltr.

Bot. Jahrb. Syst. **53**: 529. 1915.

DISTRIBUTION. Tanzania, Zambia and Malawi (Summerhayes 1968a; Williamson 1977; la Croix *et al.* 1991; la Croix & Cribb 1995).

65. *Satyrium riparium* Rchb.f.

Flora **48**: 183. 1865.

DISTRIBUTION. D.R.C. (Haut-Katanga), Tanzania, Angola, Zambia, Malawi and Zimbabwe (Durand & Schinz 1895; Rolfe 1897; Summerhayes 1968a; Schelpe 1976a; Williamson 1977; Geerinck 1984; la Croix *et al.* 1991; la Croix & Cribb 1995).

66. *Satyrium robustum* Schltr.

Bot. Jahrb. Syst. **53**: 530. 1915.

DISTRIBUTION. Uganda, Kenya and Tanzania (Summerhayes 1968a).

67. *Satyrium rupestre* Schltr. *ex* Bolus

Icon. Orchid. Austro-Afr. **1**: t. 69. 1896.

DISTRIBUTION. R.S.A. (W and central Cape) (Bolus 1896; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

68. *Satyrium sacculatum* (Rendle) Rolfe

F.T.A. **7**: 266. 1897.

Satyrium coriophoroides A. Rich. var. *sacculatum* Rendle, J. Bot. **33**: 295. 1895.

Satyrium coriophoroides Kraenzl., Orchid. Gen. Sp. **1**: 690. 1899, *non* A. Rich.

Satyrium stolzii Kraenzl., Bot. Jahrb. Syst. **48**: 388. 1912.

DISTRIBUTION. Sudan, Ethiopia, Cameroun, D.R.C., Rwanda, Uganda, Kenya, Tanzania, Zambia, Malawi (Rolfe 1897; Robyns & Tournay 1955; Piers 1968; Summerhayes 1968a; Cufodontis 1972, Cribb & Thomas 1997; Szlachetko & Olszewski 1998; Cribb *et al.* 2002).

NOTE. According to Geerinck (1984) and la Croix and Cribb (1995) this species is unseparable from *S. coriophoroides* Kraenzl. and they joined them together under the priority name *S. coriophoroides*.

69. *S. sceptrum* Schltr.

Bot. Jahrb. Syst. **53**: 527. 115.

Satyrium acutirostrum Summerh., Bull. Misc. Inform. Kew **1931**(7): 384. 1931.

DISTRIBUTION. Sudan, D.R.C. (Lacs Edouard et Kivu, Haut-Katanga), Uganda, Kenya, Tanzania, Zambia, Malawi and Zimbabwe (Summerhayes 1931; Robyns & Tournay 1955; Piers 1968; Summerhayes 1968a; Geerinck 1984; la Croix *et al.* 1991; la Croix & Cribb 1995).

70. *Satyrium schimperi* Hochst. ex A. Rich.

Tent. Fl. Abyss. 2: 300, t. 91. 1851.

Satyrium parviflorum Sw. var. *schimperi* (A. Rich.) Schltr., Bot. Jahrb. Syst. 31: 176. 1901, *pro parte*.

DISTRIBUTION. Ethiopia, D.R.C. (Lacs Edouard et Kivu, Haut-Katanga), Burundi, Rwanda, Kenya, Tanzania, Angola, Zambia, Malawi and Zimbabwe (Durand & Schinz 1895; Rolfe 1897; Cufodontis 1972, Summerhayes 1968a, Geerinck 1984, 1988; Cribb & Thomas 1997).

71. *Satyrium shireense* Rolfe

F.T.A. 7: 266. 1897.

DISTRIBUTION. Zambia and Malawi (Rolfe 1897; Williamson, la Croix *et al.* 1991; la Croix & Cribb 1995).

72. *Satyrium sphaeranthum* Schltr.

Bot. Jahrb. Syst. 53: 532. 1915.

DISTRIBUTION. Tanzania, Zambia, Malawi and Zimbabwe (Schelpe 1976b; Summerhayes 1968a; Williamson 1977; la Croix *et al.* 1991; la Croix & Cribb 1995).

73. *Satyrium sphaerocarpum* Lindl.

Gen. Sp. Orchid. Pl.: 337. 1838.

Satyrium militare Lindl., Gen. Sp. Orchid. Pl.: 342. 1838.

DISTRIBUTION. Mozambique and R.S.A. (E Cape, KwaZulu-Natal) (Durand & Schinz 1895; Bolus 1896; Schelpe 1976b; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993; la Croix & Cribb 1995).

74. *Satyrium stenopetalum* Lindl.

Gen. Sp. Orchid. Pl.: 336. 1838.

DISTRIBUTION. R.S.A. (W and E Cape) (Durand & Schinz 1895; Bolus 1896; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

– subsp. *stenopetalum*

DISTRIBUTION. R.S.A. (W and E Cape) (Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

– subsp. *brevicalcaratum* (Bolus) A. V. Hall

Contr. Bolus Herb. 10: 61. 1982.

Satyrium marginatum Bolus, J. Linn. Soc., Bot. 20: 476. 1884.

Satyrium stenopetalum Lindl. var. *brevicalcaratum* Bolus, Icon. Orchid. Austro-Afr. 1: t. 72. 1896.

Satyrium stenopetalum Lindl. var. *parviflorum* (Lindl.) Schltr., Bot. Jahrb. Syst. 31: 162. 1901.

DISTRIBUTION. R.S.A. (W Cape) (Bolus 1896; Hall 1982, 1999; Stewart *et al.* 1982).

75. *Satyrium striatum* Thunb.

Prodr. Pl. Cap.: 6. 1794.

Diplecthrum striatum (Thunb.) Pers., Synop. Pl.: 509. 1807.

DISTRIBUTION. R.S.A. (W Cape) (Durand & Schinz 1895; Bolus 1913; Lewis 1950; Hall 1982, 1999; Stewart *et al.* 1982; Reid 1993).

76. *Satyrium trinerve* Lindl.

Gen. Sp. Orchid. Pl.: 344. 1838.

Satyrium leucocomos Rchb.f., Flora 48: 182. 1865.

Satyrium atherstonei Rchb.f., Flora 64: 328. 1881.

Satyrium nuttii Rolfe, F.T.A. 7: 273. 1897.

Satyrium occultum Rolfe, F.T.A. 7: 273. 1897.

Satyrium zombense Rolfe, F.T.A. 7: 273. 1897.

Satyrium triphyllum Kraenzl., Orchid Gen. Sp. 1: 660. 1899.

Satyrium monopetalum Kraenzl., Orchid. Gen. Sp. 1: 662. 1899.

Satyrium trinerve sensu Schltr., Bot. Jahrb. Syst. 31: 182. 1901, *pro parte, non* Lindl.

Satyrium proschii Briq., Annuaire Conserv. Jard. Bot. Genève: 2. 1902.

Satyrium djalonis A. Chev., Expl. Bot. Afr. Occ. Fr. 1: 621. 1920.

DISTRIBUTION. Guinea, Sierra Leone, Nigeria, Cameroun, C.A.R., Congo, D.R.C. (Bas-Congo, Kasai, Forestier Central, Ubangi-Uele, Lac Albert,

Lacs Edouard et Kivu, Haut-Katanga), Burundi, Rwanda, Uganda, Tanzania, Angola, Zambia, Malawi, Mozambique, Zimbabwe, R.S.A. (E Cape, KwaZulu-Natal, Mpumalanga, Gauteng, Northern Province), Lesotho, Swaziland and Madagascar (Durand & Schinz 1895; Rolfe 1897; Perrier de la Bathie 1939; Summerhayes 1952, 1968a, b; Robyns & Tournay 1955; Jaeger *et al.* 1968; Jacot Guillarmod 1971; Compton 1976; Schelpe 1976a; Williamson 1977; Adam 1982; Hall 1982, 1999; Stewart *et al.* 1982; Kemp 1983; Tang & Cribb 1983; Geerinck 1984, 1988; Cribb & Fay 1987; la Croix *et al.* 1991; Reid 1993; la Croix & Cribb 1995; Szlachetko & Olszewski 1998; Du Puy *et al.* 1999).

77. *Satyrium volkensii* Schltr.

Bot. Jahrb. Syst. **24**: 425. 1897.

Satyrium brachypetalum sensu Kraenzl., Pflanzenw. Ost-Afr. **C**: 153. 1895, *pro parte, non* A. Rich.

Satyrium trachypetalum Kraenzl., Bot. Jahrb. Syst. **24**: 505. 1898.

Satyrium chlorocorys sensu Kraenzl., Orchid. Gen. Sp. **1**: 685. 1899, *pro parte, non* Rolfe.

Satyrium leptopetalum Kraenzl., Bot. Jahrb. Syst. **36**: 119. 1905.

Satyrium dizygoceras Summerh., Bull. Misc. Inform. Kew **1932**(10): 508. 1932.

DISTRIBUTION. Nigeria, Cameroun, D.R.C. (Haut-Katanga), Burundi, Kenya, Tanzania, Zambia, Malawi and Zimbabwe (Durand & Schinz 1895; Piers 1968; Summerhayes 1968a; Williamson 1977; Tang & Cribb 1983; Geerinck 1984; la Croix *et al.* 1991; la Croix & Cribb 1995; Geerinck & Arbonnier 1996; Szlachetko & Olszewski 1998).

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