

CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES
OF WILD FAUNA AND FLORA

Nomenclature Committee
Flora

Lima (Peru), 4 July 2006

Update on standard references

CITES *ALOE* & *PACHYPODIUM* CHECKLIST (2001)

1. This document has been prepared by the Management Authority of Switzerland.

Aloe

2. A considerable number of new species have been described since the publication of the CITES *Aloe Checklist* (2001). It is important for Management Authorities and inspection services to be able to check, for instance, whether a name of an *Aloe* is:
 - a) a synonym of a species that is listed in Appendix I;
 - b) a synonym of the exempted *A. vera*; or
 - c) whether it belongs to a newly discovered species that is not yet available from artificial propagation; and
 - d) whether the taxon occurs naturally in the country of origin of a shipment.
3. It would therefore be most helpful if an updated supplement (sheet) of the *Aloe Checklist* could be provided.

Preliminary list of new *Aloe* names

4. This list was kindly provided by Dr Urs Eggli at the Succulent Collection of Zürich, under a contract with the Management Authority of Switzerland. It was updated in February 2006. The survey of names published in 2005 has to be completed, i.e. a few names might be missing and new names of 2006, if there are any, still have to be added. The list contains no less than 29 names of species and subspecies or varieties that are not included in the CITES checklist:

A. andohahelensis Castillon 2002
A. arborescens ssp. *mzimnyi* Van Jaarsveld & A. E. van Wyk 2005
A. austroarabica McCoy & Lavranos 2003
A. bruynsii P. I. Forster 2003
A. canis S. Lane 2002
A. carolineae L. E. Newton 2002
A. clarkei L. E. Newton 2003
A. craibii G. F. Smith 2003
A. cyrillei Castillon 2004
A. droseroides Lavranos & T. A. McCoy 2003
A. florenceae Lavranos & T. A. McCoy 2004
A. hoffmannii Lavranos 2002

A. inexpectata Lavranos & T. A. McCoy 2003
A. irafensis Lavranos & al. 2004
A. jawiyon Christie & al. 2004
A. kouebokkeveldensis Van Jaarsveld & A. B. Low 2004
A. lolwensis L. E. Newton 2001
A. mahraensis Lavranos & T. A. McCoy 2002
A. mandotoensis Castillon 2003
A. mccoysi Lavranos & Mies 2001
A. omavandae Van Jaarsveld 2004
A. praetermissa T. A. McCoy & Lavranos 2002
A. pseudoparvula Castillon 2004
A. rebmannii Lavranos 2002
A. roeoeslii Lavranos & T. A. McCoy 2005
A. sakarahensis Lavranos & M. Teissier 2004
A. sakoankenke Castillon 2004
A. saronarae Lavranos & T. A. McCoy 2006
A. teissieri Lavranos 2002
A. trachyticola var. *multiflora* Castillon 2004

Pachypodium

5. In the frame of developing contributions to the CITES Identification Manual, due to be published in the course of 2006, relevant literature and complete documented live material were studied and it became apparent that it would be useful to update the taxonomical treatments of Pichon (1949) and Rapanarivo *et al.* (1999). Results were recently published (Lüthy, 2004). The CITES checklist is based on the classification of Rowley (2001).
6. Differences are shseparate below. *P. menabeum*, for instance, is treated as a synonym of *P. lamerei* by Rowley, whereas more recent data show that it is rather a look-alike species that strongly differs in fruit and seed characters. *P. makayense* was not knseparate to Rowley. It is treated as a subspecies of *P. rosulatum* by Lüthy and wild-collected specimens already appear in international trade as with a great offer and demand and *P. mikea* was described in 1995 as a look-alike species of *P. geayi*.
7. It would be helpful, if a supplement (sheet) with an updated list could be provided.

Comparison of accepted names of Madagascan pachypodiums

Rowley 2001	Lüthy 2004 (2005)
<i>P. ambongense</i> Poiss. 1924	<i>P. ambongense</i> Poiss. 1924
<i>P. baronii</i> Costantin & Bois 1907 <i>P. baronii</i> var. <i>baronii</i> <i>P. baronii</i> var. <i>windsorii</i> (Poiss.) Pichon 1949	<i>P. baronii</i> Costantin & Bois 1907
<i>P. brevicaule</i> Baker 1887	<i>P. brevicaule</i> Baker 1886
<i>P. decaryi</i> Poiss. 1916	<i>P. decaryi</i> Poiss. 1916
<i>P. densiflorum</i> Baker 1886 <i>P. densiflorum</i> var. <i>densiflorum</i> <i>P. densiflorum</i> var. <i>brevicalyx</i> H. Perrier 1934	<i>P. densiflorum</i> Baker 1886, incl. <i>P. densiflorum</i> var. <i>brevicalyx</i> H. Perrier 1934
	<i>P. eburneum</i> Lavranos & Rapanarivo 1997
<i>P. geayi</i> Costantin & Bois 1907	<i>P. geayi</i> Costantin & Bois 1907
<i>P. x hojnyi</i> Halda 1998	
<i>P. horombense</i> Poiss. 1924	<i>P. horombense</i> Poiss. 1924
	<i>P. inopinatum</i> Lavranos 1996

<i>P. lamerei</i> Drake 1899, incl. <i>P. menabeum</i> Léandri 1934	<i>P. lamerei</i> Drake 1899
<i>P. x rauhii</i> Halda 1997	
	<i>P. menabeum</i> Léandri 1934
	<i>P. mikea</i> Lüthy 2005
<i>P. rosulatum</i> Baker 1882 <i>P. rosulatum</i> var. <i>rosulatum</i> , incl. <i>P. cactipes</i> K. Schum. 1895 <i>P. rosulatum</i> forma <i>bicolor</i> (Lavranos & Rapanarivo) G. D. Rowley 1998 <i>P. rosulatum</i> var. <i>eburneum</i> (Lavranos & Rapanarivo) G. D. Rowley 1998 <i>P. rosulatum</i> var. <i>gracilius</i> H. Perrier <i>P. rosulatum</i> var. <i>inopinatum</i> (Lavranos) G. D. Rowley 1998	<i>P. rosulatum</i> Baker 1882 <i>P. rosulatum</i> ssp. <i>rosulatum</i> , incl. <i>P. drakei</i> Cost. & Bois 1907 <i>P. rosulatum</i> ssp. <i>bicolor</i> (Lavranos & Rapanarivo) J. Lüthy <i>P. rosulatum</i> ssp. <i>cactipes</i> (K. Schum.) J. Lüthy <i>P. rosulatum</i> ssp. <i>gracilius</i> (H. Perrier) J. Lüthy <i>P. rosulatum</i> ssp. <i>makayense</i> (Lavranos) J. Lüthy
<i>P. rutenbergianum</i> Vatke 1885 <i>P. rutenbergianum</i> var. <i>rutenbergianum</i> <i>P. rutenbergianum</i> var. <i>meridionale</i> H. Perrier 1934 <i>P. rutenbergianum</i> var. <i>sofiense</i> Poiss. 1924	<i>P. rutenbergianum</i> Vatke 1885, incl. <i>P. rutenbergianum</i> var. <i>meridionale</i> H. Perrier 1934
	<i>P. sofiense</i> (Poiss. 1924) H. Perrier 1934
	<i>P. windsorii</i> Poiss 1917

Differences

<i>P. baronii</i> var. <i>windsorii</i> <i>P. densiflorum</i> var. <i>brevicalyx</i> <i>P. x hojnyi</i> <i>P. lamerei</i> , incl. <i>P. menabeum</i> unknseparate <i>P. x rauhii</i> <i>P. rosulatum</i> var. <i>rosulatum</i> , incl. <i>P. cactipes</i> <i>P. rosulatum</i> forma <i>bicolor</i> <i>P. rosulatum</i> var. <i>eburneum</i> <i>P. rosulatum</i> var. <i>gracilius</i> <i>P. rosulatum</i> var. <i>inopinatum</i> <i>P. rutenbergianum</i> var. <i>meridionale</i> <i>P. rutenbergianum</i> var. <i>sofiense</i> unknseparate	recognized as separate species not recognized not recognized <i>P. menabeum</i> recognized as separate species <i>P. mikea</i> not recognized <i>P. rosulatum</i> ssp. <i>cactipes</i> recognized as separate ssp. classified as a subspecies recognized as separate species classified as a subspecies recognized as separate species not recognized recognized as separate species <i>P. rosulatum</i> ssp. <i>makayense</i>
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Classified list of the Malagasy pachypodiums (Lüthy 2004, 2005)

Subgenus *Nesopodium* J. Lüthy

A. Section *Leucopodium* Pichon

A1 Series *Contorta* Pichon

1. *P. decaryi* Poiss. 1916
2. *P. rutenbergianum* Vatke 1885, incl. *P. rutenbergianum* var. *meridionale* H. Perrier 1934
3. *P. sofiense* (Poiss. 1924) H. Perrier 1934

A2 Series *Ternata* Pichon

4. *P. geayi* Costantin & Bois 1907
5. *P. lamerei* Drake 1899
6. *P. mikea* Lüthy 1995

A3 Series *Pseudoternata* J. Lüthy

7. *P. ambongense* Poiss. 1924
8. *P. menabeum* Léandri 1934

B. Section *Porphyropodium* Pichon

9. *P. baronii* Costantin & Bois 1907
10. *P. windsorii* Poiss 1917

C. Section *Gymnopus* K. Schumann

C1 Series *Ramosa* Pichon

11. *P. rosulatum* Baker 1882 (proposed for conservation)
 ssp. *rosulatum*, incl. *P. drakei* Cost. & Bois 1907
 ssp. *bicolor* (Lavranos & Rapanarivo) J. Lüthy
 ssp. *cactipes* (K. Schum.) J. Lüthy
 ssp. *gracilius* (H. Perrier) J. Lüthy
 ssp. *makayense* (Lavranos) J. Lüthy
12. *P. brevicaule* Baker 1886

C2 Series *Densiflora* J. Lüthy

13. *P. densiflorum* Baker 1886, incl. *P. densiflorum* var. *brevicalyx* H. Perrier 1934
14. *P. eburneum* Lavranos & Rapanarivo 1997
15. *P. horombense* Poiss. 1924
16. *P. inopinatum* Lavranos 1996