

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

Nomenclature Committee (Flora)
Geneva (Switzerland), 20 May 2005

CITES *ALOE* AND *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*;
 - c) whether it belongs to a newly discovered species that is not yet available from artificial propagation; or
 - 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.

Pachypodium

4. In the context of developing contributions to the CITES Identification Manual, 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). The results were published last year (Lüthy, 2004). The CITES checklist is based on the classification of Rowley (2001).
5. Differences are shown below. *P. menabeum*, for instance, is treated as a synonym of *P. lamerei* by Rowley, whereas newer data show that it is a look-alike species that strongly differs in fruit and seed characters. *P. makayense* was not known to Rowley. It is treated as a subspecies of *P. rosulatum* by Lüthy and already appears in international trade as wild-collected specimens with a high offer and demand.
6. It would be helpful if a supplement (sheet) with an updated list could be provided.

Comparison of accepted names of Malagasy pachypodiums

Rowley 2001	Lüthy 2004
<i>P. ambongense</i> Poiss. 1924	<i>P. ambongense</i> Poiss. 1924
<i>P. baronii</i> Costantin & Bois 1907	<i>P. baronii</i> Costantin & Bois 1907
<i>P. baronii</i> var. <i>baronii</i>	<i>P. brevicaule</i> Baker 1886
<i>P. baronii</i> var. <i>windsorii</i> (Poiss.) Pichon 1949	<i>P. decaryi</i> Poiss. 1916
<i>P. brevicaule</i> Baker 1887	<i>P. densiflorum</i> Baker 1886, incl. <i>P. densiflorum</i> var. <i>brevicalyx</i> H. Perrier 1934
<i>P. decaryi</i> Poiss. 1916	<i>P. eburneum</i> Lavranos & Rapanarivo 1997
<i>P. densiflorum</i> Baker 1886	<i>P. geayi</i> Costantin & Bois 1907
<i>P. densiflorum</i> var. <i>densiflorum</i>	<i>P. horombense</i> Poiss. 1924
<i>P. densiflorum</i> var. <i>brevicalyx</i> H. Perrier 1934	<i>P. inopinatum</i> Lavranos 1996
<i>P. geayi</i> Costantin & Bois 1907	<i>P. lamerei</i> Drake 1899
<i>P. x hojnyi</i> Halda 1998	<i>P. menabeum</i> Léandri 1934
<i>P. horombense</i> Poiss. 1924	<i>P. rosulatum</i> Baker 1882
<i>P. lamerei</i> Drake 1899, incl. <i>P. menabeum</i> Léandri 1934	<i>P. rosulatum</i> ssp. <i>rosulatum</i> , incl. <i>P. drakei</i> Cost. & Bois 1907
<i>P. x rauhii</i> Halda 1997	<i>P. rosulatum</i> ssp. <i>bicolor</i> (Lavranos & Rapanarivo) J. Lüthy
<i>P. rosulatum</i> Baker 1882	<i>P. rosulatum</i> ssp. <i>cactipes</i> (K. Schum.) J. Lüthy
<i>P. rosulatum</i> var. <i>rosulatum</i> , incl. <i>P. cactipes</i> K. Schum. 1895	<i>P. rosulatum</i> ssp. <i>gracilius</i> (H. Perrier) J. Lüthy
<i>P. rosulatum</i> forma <i>bicolor</i> (Lavranos & Rapanarivo) G. D. Rowley 1998	<i>P. rosulatum</i> ssp. <i>makayense</i> (Lavranos) J. Lüthy
<i>P. rosulatum</i> var. <i>eburneum</i> (Lavranos & Rapanarivo) G. D. Rowley 1998	<i>P. rutenbergianum</i> Vatke 1885, incl. <i>P. rutenbergianum</i> var. <i>meridionale</i> H. Perrier 1934
<i>P. rosulatum</i> var. <i>gracilius</i> H. Perrier	<i>P. sofiense</i> (Poiss. 1924) H. Perrier 1934
<i>P. rosulatum</i> var. <i>inopinatum</i> (Lavranos) G. D. Rowley 1998	<i>P. windsorii</i> Poiss 1917
<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	

Differences

<i>P. baronii</i> var. <i>windsorii</i>	recognized as own species
<i>P. densiflorum</i> var. <i>brevicalyx</i>	not recognized
<i>P. x hojnyi</i>	not recognized
<i>P. lamerei</i> , incl. <i>P. menabeum</i>	<i>P. menabeum</i> recognized as own species
<i>P. x rauhii</i>	not recognized
<i>P. rosulatum</i> var. <i>rosulatum</i> , incl. <i>P. cactipes</i>	<i>P. rosulatum</i> ssp. <i>cactipes</i> recognized as own ssp.
<i>P. rosulatum</i> forma <i>bicolor</i>	classified as a subspecies
<i>P. rosulatum</i> var. <i>eburneum</i>	recognized as own species
<i>P. rosulatum</i> var. <i>gracilius</i>	classified as a subspecies
<i>P. rosulatum</i> var. <i>inopinatum</i>	recognized as own species
<i>P. rutenbergianum</i> var. <i>meridionale</i>	not recognized
<i>P. rutenbergianum</i> var. <i>sofiense</i>	recognized as own species
unknown	<i>P. rosulatum</i> ssp. <i>makayense</i>
unknown	<i>P. spec. nov.</i> (a look-alike of <i>P. geayi</i> , in prep.)

Classified list of the Malagasy pachypodiums (Lüthy 2004)

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

A3 Series *Pseudoternata* J. Lüthy

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

B. Section *Porphyropodium* Pichon

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

C. Section *Gymnopus* K. Schumann

C1 Series *Ramosa* Pichon

10. *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
11. *P. brevicaule* Baker 1886

C2 Series *Densiflora* J. Lüthy

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