

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



Eighteenth meeting of the Plants Committee
Buenos Aires (Argentina), 17-21 March 2009

Nomenclatural matters

REPORT OF THE NOMENCLATURE SPECIALIST OF THE PLANTS COMMITTEE

1. This document has been submitted by the nomenclature specialist of the Plants Committee^{*}.
2. Plant groups for which the Plants Committee has not prescribed a standard reference
 - a) *Cyathea* (514 spp.)

The UNEP-WCMC list includes a consolidated list of names and a decision is required whether further work needs to be done on this group at this time. One possible reference source is World Ferns (Hassler and Swale, 2001-). This checklist is available on CD-ROM. The PC nomenclature specialist sought recommendations at PC17 for experts to review this publication so that a recommendation can be put to the Committee. Only one response was received to this request, additional recommendations for experts are required to ensure a comprehensive review. It may be the case that it is not appropriate to adopt a standard reference at this time.

3. Plant groups listed at CoP13 which require consideration by the Plants Committee
 - a) *Gonystylus*
 - b) *Aquilaria*
 - c) *Gyrinops*

No standard reference has been adopted for these Agarwood producing genera.

PC17 recommended that range States submit references that might serve as standard references. There was no response to this request. Therefore no further action is recommended at present. The situation can be reviewed on an ongoing basis in the light of the results of research on these taxa.

^{*} *The geographical designations employed in this document do not imply the expression of any opinion whatsoever on the part of the CITES Secretariat or the United Nations Environment Programme concerning the legal status of any country, territory, or area, or concerning the delimitation of its frontiers or boundaries. The responsibility for the contents of the document rests exclusively with its author.*

4. Update on CITES Checklists

The CITES Orchid Checklists: A number of Parties have indicated that they urgently require an update of Volume 1 (published 1995) of the Checklist which includes the widely traded genera *Paphiopedilum* and *Phragmipedium*. This option was included in the work programme put to CoP14 and was approved by the Conference. A revision of Volume I is underway with the first draft prepared by the Royal Botanic Gardens, Kew, based on the *World Checklist of Monocotyledons*. This document has been reviewed by international experts and a revised text is being circulated. The members of the Plants Committee provided recommendations for experts to review this document and these experts are now contributing to the review. It is unlikely that a final text will be prepared in time to meet CoP15 deadlines. This is dependent on the speed of the review process. If possible the nomenclature specialist will seek to have a final document available for CoP15.

The CITES Cactus Checklist: The work programme submitted to CoP14 outlined a proposal to produce a new edition of the checklist based on the *The New Cactus Lexicon*. The editor of the checklist is now preparing a third edition of the Cactus Checklist (CC3) based on the lexicon. It is hoped that a final draft will be ready to meet CoP15 deadlines. If possible, a draft final list will be submitted by the August 19th deadline for web based review by the Parties. If then adopted at CoP15 a hard copy version will be published. To allow timely preparation of the checklist the editor has asked for guidance on the following issues.

Page size: The current page size is non standard and it is recommended that one of the basic standard page-sizes A4 or A5 is adopted. The editor suggests A5 and the nomenclature specialist supports this view.

Content: Previous editions were in 3 part format. Part I - alphabetic list of names in current usage, Part II - list of accepted taxa with distributions and synonymy and Part III - Country Checklists. The nomenclature specialist does not propose any change to this format as Parties have commented that they found it useful.

Reference data: For the second edition of the Cactus Checklist (CC2) the then Nomenclature Committee, based on a user survey, requested the inclusion of botanical authorities in the list of taxa. For CC3 the editor feels that this is of limited value as, for those consulting the list as a pointer for more information, the date and place of publication of each name listed would be of more assistance. Inserting this information in CC3, in full, would expand the list and possibly cause confusion to non-experts. An alternative would be to include all this data in a highly abbreviated form in order that it is restricted to one line of text. The data would then be available to those who require it.

Cross-Reference to the Cactus Lexicon: The editor and the nomenclature specialist recommend that the species entries be cross referenced to illustrations in *The New Cactus Lexicon*. A number of Parties have confirmed that they would find this useful. A similar cross referencing could also deal with the issues of botanical authorities and date and place of publication.

Index numbers: It is proposed that CC3 be available as a web version in addition to a hardcopy publication. In the online version each name will have a unique database record number. It may be advantageous to include these numbers in the published version to allow ease of cross reference to the online version and the proposed online version of *The New Cactus Lexicon*.

The Committee is asked for its views on the above proposals. To assist in the Committee's work, four examples of different checklist layouts are presented in the Annex to this document as follows:

- A. Single column format with botanical authorities as in Cactus Checklist 2, only amendment is cross reference to illustrations in the Atlas volume of *The New Cactus Lexicon* indicated by the symbol @. This option is included in Annexes A – D.
- B. Single column format with database record number and abbreviated literature references as in *The New Cactus Lexicon* (an index of the abbreviations would be provided).
- C. Two column format, with no authorities, references or database record numbers.
- D. As in Annex C, but with database record numbers.

It should be noted that formats C and D would save at least 60 printed pages and hence reduce hard-copy production and distribution costs.

In addition, to ensure that a checklist is produced that is acceptable to the CITES Parties the Plants Committee is asked to recommend experts that the editor may contact for advice as appropriate.

5. Cycad Nomenclature

World list of Cycads: Conf. 12.11 (Rev. CoP14) states that the CITES standard reference is "A World List of Cycads (D.W. Stevenson, R. Osborne and K.D. Hill, 1995; In: P. Vorster (Ed.), Proceedings of the Third International Conference on Cycad Biology, pp. 55-64, Cycad Society of South Africa, Stellenbosch) and its updates accepted by the Plants Committee, as a guideline when making reference to names of species of Cycadaceae, Stangeriaceae and Zamiaceae."

The latest version (2007) has been published as part of the Cycad 2005 proceedings (Memoirs of New York Botanical Garden 97: 454-483) and is available on the IUCN Cycad Specialist Group website (<http://www.cycadsg.org/pages/worldlist.htm>) and the next version will be published in 2009/10 as part of the proceedings of the most recent meeting.

The Plants Committee is asked to approve the latest published version of the checklist.

Decision 14.18: Harmonization of nomenclature and taxonomy with other Multilateral Environmental Agreements

This Decision is directed to the Secretariat and states, that

In close cooperation with the nomenclature specialists of the Animals and Plants Committees, the Secretariat shall, in the implementation of its memoranda of understanding or cooperation, or programmes of work with other biodiversity-related multilateral environmental agreements, continue to consider ways of harmonizing the taxonomy and nomenclature of species included in their respective provisions. The Secretariat shall report and make recommendations on this matter at the 15th meeting of the Conference of the Parties.

PC17 recommended that this issue be covered by PC17 WG12 to work intersessionally on implementation of Decision 14.18. The report of that working group notes

Target 1 of the GSPC is the production "of a widely accessible working list of known plant species, as a step towards a complete world flora". Such a working list would be a major tool for CITES Parties and for the other biodiversity related Multilateral Environmental Agreements (MEA's). As such it would provide the basis for relevant harmonization in taxonomy and nomenclature across these conventions. However, it is noted that in the case of CITES a conservative approach is, and will be required to effectively implement the convention and to provide a stable environment for CITES Authorities to function.

and recommends that the Plants Committee task a Nomenclature Working Group to review the harmonization of nomenclature and taxonomy with other MEAs.

6. Summary

The Plants Committee is asked to:

- a) Recommend relevant experts to review World Ferns (Hassler and Swale, 2001-) or consider whether its is necessary to adopt a standard at this time.
- b) Consider whether it is necessary to adopt standard references for *Gonystylus*, *Aquilaria* and *Gyrinops* at this time.
- c) Approve the update of the *World list of Cycads*.
- d) Consider options for the format of Cactus Checklist 3 and make recommendations for experts that the editor may contact for advice.
- e) Review how best and to what degree harmonisation of nomenclature and taxonomy should take place across the biodiversity MEA's.

It is recommended that a Nomenclature Working Group be formed at PC18 to address these issues.

EXAMPLES OF CHECKLISTS LAY OUT

A

Part III. List of accepted taxa and their principal synonyms

- Cereus aethiops** HaworthAR, BR, UY. @129.4
Piptanthocereus aethiops (Haworth) Ritter
Cereus azureus Parmentier ex Pfeiffer
Cereus chalybaeus Otto ex Walpers
- Cereus albicaulis** (Britton & Rose) LuetzelburgBR. @129.2
Acanthocereus albicaulis Britton & Rose
Mirabella albicaulis (Britton & Rose) Ritter
Monvillea albicaulis (Britton & Rose) Kiesling
- Cereus bicolor** Rizzini & MattosBR. @130.5, 131.1-2
- Cereus estevesii** BraunBR. @129.5
- Cereus fernambucensis** LemaireBR. @
Cereus neotetragonus Backeberg
Cereus pernambucensis auctt
Piptanthocereus sericifer Ritter
- Cereus fernambucensis** ssp. **fernambucensis**BR. @131.3
- Cereus fernambucensis** ssp. **sericifer** (Ritter) Taylor & ZappiBR. @131.4
Piptanthocereus sericifer Ritter
Cereus sericifer (Ritter) Braun
- Cereus fricii** BackebergVE @135.5
Cephalocereus russel(l)ianus Rose ex Bailey
Subpilocereus russelianus (Salm-Dyck) Backeberg
Cereus russelianus Hort. Berol. ex Salm-Dyck
- Cereus hankeanus** Weber ex SchumannAR, BO @131.5, 132.1-3
Cereus cochabambensis Cardenas
Cereus comarapanus Cardenas
Piptanthocereus comarapanus (Cardenas) Ritter
Cereus forbesii auctt
Cereus huilunchu Cardenas
Piptanthocereus huilunchu (Cardenas) Ritter
Cereus validus Haworth
- Cereus hexagonus** (Linnaeus) MillerBR, GF, GY, SR, TT, VE. @132.4-5
Cactus hexagous Linnaeus
Cereus longiflorus Alexander
Cereus perlucens Schumann
- Cereus hildmannianus** SchumannAR, BR, PY, UY. @
Cereus neonesioticus (Ritter) Braun
Piptanthocereus neonesioticus Ritter
Cereus xanthocarpus Schumann
Piptanthocereus xanthocarpus (Schumann) Ritter
Cereus hildmannianus ssp. *xanthocarpus* (Schumann) Braun & Esteves Pereira
Cereus peruvianus auctt non (Linnaeus) Miller
- Cereus hildmannianus** ssp. **hildmannianus**BR, PY. @133.1
Cereus milesimus Rost
- Cereus hildmannianus** ssp. **uruguayanus** (Kiesling) TaylorAR, BR, UY. @132.6
Cereus uruguayanus Kiesling
Piptanthocereus uruguayanus Ritter
Piptanthocereus bageanus Ritter
- Cereus horrispinus** BackebergCO, VE. @136.1-2
Subpilocereus horrispinus (Backeberg) Backeberg
Subpilocereus ottonis Backeberg
- Cereus insularis** HemsleyBR. @133.2-3
Monvillea insularis (Hemsley) Britton & Rose

Part III. List of taxa and their principal synonyms

- 00101 **Cereus aethiops** Haw 1830/PM 109.AR, BR, UY. @129.4
 10812 *Piptanthocereus aethiops* (Haw) Ritt 1980/KSA 2: 435.
 08408 *Cereus azureus* Pf 1837/Enum. 86.
 00126 *Cereus chalybaeus* Walp 1846/RbS 2: 340.
 00116 **Cereus albicaulis** (B+R) LtzB 1926/EBN 3: 111.BR. @129.2
 08078 *Acanthocereus albicaulis* B+R 1920/CBR 2: 125.
 08085 *Mirabella albicaulis* (B+R) Ritt 1979/KSA 1: 110.
 12204 *Monvillea albicaulis* (B+R) Kies 1994/CSJA 66(4): 165.
 00120 **Cereus bicolor** Rizz+Matt 1985/RBB 45(3): 307.BR. @130.5, 131.1-2
 14302 **Cereus estevesii** Braun 2004/BCSJ 22(1): 17-22.BR. @129.5
 00146 **Cereus fernambucensis** Lem 1839/CGNS 58.BR. @
 00143 *Cereus neotetragonus* Bkg 1960/CH 4: 2363.
 11782 *Cereus pernambucensis* auctt
 12824 *Cereus tetragonus* auctt
 12936 **Cereus fernambucensis fernambucensis**BR. @131.3
 12722 **Cereus fernambucensis sericifer** (Ritt) T+Z 1997/CCI 3: 7.BR. @131.4
 10826 *Piptanthocereus sericifer* Ritt 1979/KSA 1: 232.
 00155 *Cereus sericifer* (Ritt) Braun 1988/Brdl. 6: 86.
 03686 **Cereus fricii** Bkg 1930/MDKG 2: 164.VE. @135.5
 07410 *Pilocereus fricii* Bkg 1930/MDGZ 45: 81.
 08331 *Cephalocereus russel(l)ianus* Bail 1914/SCH 2: 715.
 11228 *Subpilocereus russelianus* (Bail) Bkg 1941/BS 1941: 59.
 00109 *Cereus russelianus* S-D 1850/CHD 201.
 00133 **Cereus hankeanus** KSch 1897/GK 88.AR, BO. @131.5, 132.1, 132.3
 14367 *Cereus forbesii* auctt
 00127 *Cereus cochabambensis* Card 1970/CSJA 42: 30.
 00128 *Cereus comarapanus* Card 1956/SuNL 1956: 5.
 10817 *Piptanthocereus comarapanus* (Card) Ritt 1980/KSA 2: 555.
 00136 *Cereus huilunchu* Card 1951/SuNL 1951: 49.@132.2
 10821 *Piptanthocereus huilunchu* (Card) Ritt 1980/KSA 2: 556.
 00161 *Cereus validus* Haw 1831/PM 10: 420.
 00134 **Cereus hexagonus** (L) Mill 1768/GD [].BR, GF, GY, SR, TT, VE. @132.4-5
 03255 *Cactus hexagonus* L 1753/Sp. 466.
 00141 *Cereus longiflorus* Alex 1939/Lloy. 1939(2): 199.
 00145 *Cereus perlucens* KSch 1900/MfK 10: 173.
 00105 **Cereus hildmannianus** KSch 1890/MFBr 4(2): 202.AR, BO, BR, PY, UY. @
 08439 *Cereus neonesioticus* (Ritt) Braun 1988/Brdl. 6: 86.
 10824 *Piptanthocereus neonesioticus* Ritt 1979/KSA 1: 237.
 00163 *Cereus xanthocarpus* KSch 1903/GN 32.
 10829 *Piptanthocereus xanthocarpus* (KSch) Ritt 1979/KSA 1: 258.
 12276 *Cereus hildmannianus xanthocarpus* (KSch) Braun+Est 1995/SuNL 74(2): 84.
 13191 **Cereus hildmannianus hildmannianus**BR, PY. @133.1
 08436 *Cereus milesimus* Rost 1932/DPL 1932: 43.
 13192 **Cereus hildmannianus uruguayanus** (Kies) Tayl 1998/CCI 6: 15. .AR, BR, UY. @132.6
 00160 *Cereus uruguayanus* Kies 1982/Darw. 24(1-4): 448.
 10828 *Piptanthocereus uruguayanus* Ritt 1979/KSA 1: 244.
 02146 *Piptanthocereus bageanus* Ritt 1979/KSA 1: 238.

- Cereus aethiops**BR, UY, AR. @129.4
Piptanthocereus aethiops
Cereus azureus
Cereus chalybaeus
- Cereus albicaulis**BR. @129.2
Acanthocereus albicaulis
Mirabella albicaulis
Monvillea albicaulis
- Cereus bicolor**BR. @130.5, 131.1-2
Cereus estevesiiBR. @129.5
- Cereus fernambucensis**BR. @
Cereus neotetragonus
Cereus pernambucensis
Cereus tetragonus auctt
- Cereus fernambucensis fernambucensis**BR. @131.3
Cereus fernambucensis sericiferBR. @131.4
Piptanthocereus sericifer
Cereus sericifer
- Cereus fricii**VE. @135.5
Pilocereus fricii
Cephalocereus russel(i)anus
Subpilocereus russelianus
Cereus russelianus
- Cereus hankeanus**BO, AR. @131.5, 132.1, 132.3
Cereus forbesii auctt
Cereus cochabambensis
Cereus comarapanus
Piptanthocereus comarapanus
Cereus huilunchu
Piptanthocereus huilunchu
Cereus validus
- Cereus hexagonus**TT, GY, GF, SR, BR, VE. @132.4-5
Cactus hexagonus
Cereus longiflorus
Cereus perluensis
- Cereus hildmannianus**BR, PY, BO, UY, AR. @
Cereus neonesioticus
Piptanthocereus neonesioticus
Cereus xanthocarpus
Piptanthocereus xanthocarpus
Cereus hildmannianus xanthocarpus
- Cereus hildmannianus hildmannianus**BR, PY. @133.1
Cereus milesimus
- Cereus hildmannianus uruguayanus** ...BR, UY, AR. @132.6
- Cereus uruguayanus**
Piptanthocereus uruguayanus
Piptanthocereus bageanus
- Cereus horrispinus**CO, VE. @136.1-2
Subpilocereus horrispinus
Subpilocereus ottonis
- Cereus insularis**BR. @133.2-3
Monvillea insularis
Cereus ridleyi
- Cereus jamacaru**BR. @
Cereus lividus
- Cereus jamacaru jamacaru**BR. @133.5
Cereus goiasensis
Piptanthocereus goiasensis
Cereus jamacaru goiasensis
- Cereus jamacaru calcirupicola**BR. @133.4
Piptanthocereus calcirupicola
- Cereus calcirupicola*
Piptanthocereus cabralensis
Cereus calcirupicola cabralensis
Piptanthocereus cipoensis
Cereus calcirupicola cipoensis
- Cereus kroenleinii**BR, BO, PY. @130.1-2
Monvillea kroenleinii
Cereus phatnospermus kroenleinii
- Cereus lamprospermus**PY, ?BO. @
Cereus lamprospermus lamprospermusPY.
Cereus lamprospermus colosseusPY. @134.1-2
Piptanthocereus colosseus
- Cereus lanosus**PY. @134.3
Piptanthocereus lanosus
- Cereus mirabella**BR. @129.3
Mirabella minensis
Monvillea minensis
- Cereus mortensenii**VE. @136.3
Pilocereus mortensenii
Pilosocereus mortensenii
Subpilocereus mortensenii
Pilosocereus gruberi
- Cereus phatnospermus**BR, PY.
Monvillea phatnosperma
Cereus adelmarii
Monvillea adelmarii
Cereus phatnospermus adelmarii
- Cereus pierre-braunianus**BR. @134.4-5
Cereus repandusAN, VE. @136.4-5
Cactus repandus
Subpilocereus repandus
Cereus atroviridis
Subpilocereus atroviridis
Cereus grenadensis
Subpilocereus grenadensis
Cereus margaritensis
Subpilocereus repandus micracanthus
Cereus peruvianus auctt
Subpilocereus remolinensis
- Cereus saddianus**BR. @130.3
Monvillea saddiana
- Cereus spagazzinii**BR, AR, BO, PY. @130.4
Monvillea spagazzinii
Cereus anisitsii
Monvillea ebenacantha
Cereus haageanus
Cereus haageanus
Monvillea haageana
Monvillea lindenzweigiana
Piptanthocereus lindenzweigianus
- Cereus stenogonus**BO, PY, AR. @135.1-2
Piptanthocereus stenogonus
Cereus argentinensis
Cereus dayami
Piptanthocereus dayami
Cereus roseiflorus
Cereus tacuaralensis
- Cereus trigonodendron**PE (not BO). @135.3
Cereus VargasianusPE. @135.4

CITES Cactaceae Checklist

00101 <i>Cereus aethiops</i> AR, BR, UY. @129.4	12723 <i>Cereus jamacaru calcirupicola</i> BR. @133.4
10812 <i>Piptanthocereus aethiops</i>	10815 <i>Piptanthocereus calcirupicola</i>
08408 <i>Cereus azureus</i>	00123 <i>Cereus calcirupicola</i>
00126 <i>Cereus chalybaeus</i>	10814 <i>Piptanthocereus cabralensis</i>
00116 Cereus albicaulis BR. @129.2	12271 <i>Cereus calcirupicola cabralensis</i>
08078 <i>Acanthocereus albicaulis</i>	10816 <i>Piptanthocereus cipoensis</i>
08085 <i>Mirabella albicaulis</i>	12272 <i>Cereus calcirupicola cipoensis</i>
12204 <i>Monvillea albicaulis</i>	12089 Cereus kroenleinii BR, BO, PY. @130.1-2
00120 Cereus bicolor BR. @130.5, 131.1-2	12114 <i>Monvillea kroenleinii</i>
14302 Cereus estevesii BR. @129.5	12822 <i>Cereus phatnospermus kroenleinii</i>
00146 Cereus femambucensis BR	00139 Cereus lamprospERMUS PY, ?BO.
00143 <i>Cereus neotetragonus</i>	12962 Cereus lamprospERMUS lamprospERMUS PY.
11782 <i>Cereus pernambucensis</i> auctt	12278 Cereus lamprospERMUS colosseus @134.1-2
12824 <i>Cereus tetragonus</i> auctt	02147 <i>Piptanthocereus colosseus</i>
12936 Cereus femambucensis femambucensis BR. @131.3	00140 Cereus lanosus PY. @134.3
12722 Cereus femambucensis sericifer BR. @131.4	10822 <i>Piptanthocereus lanosus</i>
10826 <i>Piptanthocereus sericifer</i>	02599 Cereus mirabella BR. @129.3
00155 <i>Cereus sericifer</i>	08086 <i>Mirabella minensis</i>
03686 Cereus fricii VE. @135.5	12205 <i>Monvillea minensis</i>
07410 <i>Pilocereus fricii</i>	02600 Cereus mortensenii VE. @136.3
08331 <i>Cephalocereus russel(l)ianus</i>	07520 <i>Pilocereus mortensenii</i>
11228 <i>Subpilocereus russelianus</i>	10795 <i>Pilosocereus mortensenii</i>
00109 <i>Cereus russelianus</i>	11225 <i>Subpilocereus mortensenii</i>
00133 Cereus hankeanus AR, BO. @131.5, 132.1-132.3	10789 <i>Pilosocereus gruberi</i>
14367 <i>Cereus forbesii</i> auctt	00147 Cereus phatnospermus BR, PY.
00127 <i>Cereus cochabambensis</i>	10174 <i>Monvillea phatnosperma</i>
00128 <i>Cereus comarapanus</i>	00114 <i>Cereus adelmarii</i>
10817 <i>Piptanthocereus comarapanus</i>	10163 <i>Monvillea adelmarii</i>
00136 <i>Cereus huilunchu</i> [@132.2]	12823 <i>Cereus phatnospermus adelmarii</i>
10821 <i>Piptanthocereus huilunchu</i>	14310 Cereus pierre-braunianus BR. @134.4-5
00161 <i>Cereus validus</i>	00149 Cereus repandus AN, VE. @136.4-5
00134 Cereus hexagonus BR, GF, GY, SR, TT, VE. @132.4-5	03446 <i>Cactus repandus</i>
03255 <i>Cactus hexagonus</i>	11227 <i>Subpilocereus repandus</i>
00141 <i>Cereus longiflorus</i>	00119 <i>Cereus atroviridis</i>
00145 <i>Cereus perlucens</i>	11222 <i>Subpilocereus atroviridis</i>
00105 Cereus hildmannianus AR, BO, BR, PY, UY	08429 <i>Cereus grenadensis</i>
08439 <i>Cereus neonesioticus</i>	11223 <i>Subpilocereus grenadensis</i>
10824 <i>Piptanthocereus neonesioticus</i>	00142 <i>Cereus margantensis</i>
00163 <i>Cereus xanthocarpus</i>	12509 <i>Subpilocereus repandus micracanthus</i>
10829 <i>Piptanthocereus xanthocarpus</i>	12950 <i>Cereus peruvianus</i> auctt
12276 <i>Cereus hildmannianus xanthocarpus</i>	11226 <i>Subpilocereus remolinensis</i>
13191 Cereus hildmannianus hildmannianus	00153 Cereus saddianus BR. @130.3
. BR, PY. @133.1	10177 <i>Monvillea saddiana</i>
08436 <i>Cereus milesimus</i>	00112 Cereus spegazzinii BR, AR, BO, PY. @130.4
13192 Cereus hildmannianus uruguayanus	10162 <i>Monvillea spegazzinii</i>
. AR, BR, UY. @132.6	08372 <i>Cereus anisitsii</i>
00160 <i>Cereus uruguayanus</i>	01412 <i>Monvillea ebenacantha</i>
10828 <i>Piptanthocereus uruguayanus</i>	02578 <i>Cereus haageanus</i>
02146 <i>Piptanthocereus bageanus</i>	03702 <i>Cereus haageanus</i>
00135 Cereus horrispinus CO, VE. @136.1-2	10169 <i>Monvillea haageana</i>
11224 <i>Subpilocereus horrispinus</i>	10160 <i>Monvillea lindenzweigiana</i>
11772 <i>Subpilocereus ottonis</i>	10823 <i>Piptanthocereus lindenzweigianus</i>
00137 Cereus insularis BR. @133.2-3	00156 Cereus stenogonus BO, PY, AR. @135.1-2
10170 <i>Monvillea insularis</i>	10827 <i>Piptanthocereus stenogonus</i>
00151 <i>Cereus ridleyi</i>	00118 <i>Cereus argentinensis</i>
00107 Cereus jamacaru BR. @	00103 <i>Cereus dayami</i>
04100 <i>Cereus lividus</i>	10819 <i>Piptanthocereus dayami</i>
12951 Cereus jamacaru jamacaru BR. @133.5	00152 <i>Cereus roseiflorus</i>
08425 <i>Cereus goiasensis</i>	00157 <i>Cereus tacuaralensis</i>
10820 <i>Piptanthocereus goiasensis</i>	00159 Cereus trigonodendron PE (not BO). @135.3
12277 <i>Cereus jamacaru goiasensis</i>	00162 Cereus vargasianus PE. @135.4