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

Nineteenth meeting of the Conference of the Parties
Panama City (Panama), 14 – 25 November 2022

Species specific matters
Maintenance of the Appendices

STANDARD NOMENCLATURE

1. This document has been submitted by the Animals and Plants Committees and prepared by their respective specialists on nomenclature.*

Introduction

2. Resolution Conf. 18.2 on the Establishment of Committees tasks the Animals and Plants Committees with identifying and addressing nomenclatural issues in accordance with Resolution Conf. 12.11 (Rev. CoP18) on Standard nomenclature. Resolution Conf. 12.11 (Rev. CoP18) charges the Animals and Plants Committees with initiating the process of updating the current standard nomenclatural references and adopting new ones and with providing an evaluation of the implications for the implementation of the Convention when recommending a change in the name of a taxon to be used in the Appendices.

3. In addition, the 18th meeting of the Conference of the Parties adopted a number of Decisions which concerned matters relating to nomenclature directed to the Animals and Plants Committee, in some cases with input or support from Parties, the Standing Committee and the Secretariat.

4. The present document provides a consolidated report on the fulfilment of the instructions directed to the Animals and Plants Committees in the field of nomenclature both in Resolution Conf. 12.11 (Rev. CoP18) and the Decisions referred to in paragraph 2 above and in relation to both fauna and flora.

5. In accordance with paragraph 2 i) of Resolution Conf. 12.11 (Rev. CoP18), the citations of checklists nominated for standard references in the present document were provided to Parties by the Secretariat through Notification No. 2022/042 of 25 May 2022.

Flora

6. At its 18th meeting (CoP18, Geneva, 2019), the Conference of the Parties adopted two sets of Decisions that are relevant to nomenclature of flora species listed in the Appendices, as follows:

*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.
Nomenclature (Cactaceae Checklist and its Supplement)

18.304 Directed to Parties

Parties shall inform the Secretariat on their experience in using the CITES Cactaceae Checklist (3rd edition) and its Supplement (2018) and any issues that may arise as they apply these lists, including feedback to improve it in the light of relevant updates of cacti taxonomy.

18.305 Directed to the Secretariat

The Secretariat shall:

a) liaise with the United Nations Environment Programme – World Conservation Monitoring Centre (UNEP-WCMC) to obtain feedback on the utility of the CITES Cactaceae Checklist (3rd edition) and its Supplement (2018) and any queries that arise as they update relevant databases, taking into account feedback provided by Parties as per Decision 18.304; and

b) report to the Plants Committee of this feedback and any comments it receives from the Parties in order for the Committee to review this at its regular meetings.

18.306 Directed to the Plants Committee

The Plants Committee shall review any report from the Secretariat related to the implementation of Decision 18.305 and, as appropriate, make recommendations to the Conference of the Parties at its 19th meeting.

Production of a CITES Checklist for Dalbergia spp.

18.307 Directed to the Secretariat

The Secretariat shall, in close cooperation with the nomenclature specialist of the Plants Committee:

a) subject to availability of external resources, undertake the development of an annotated CITES Checklist of Dalbergia spp., taking into consideration:

i) relevant elements of paragraph 7 of document CoP18 Doc. 99, as well as the pertinence of including a distinction between timber and non-timber species of Dalbergia spp.;

ii) the required research and other work needed for the production of such a Checklist; and

iii) aspects related to its publication; and

b) report on progress or results of this process to the Plants Committee at its regular meetings and seek its advice and input.

18.308 Directed to the Plants Committee

The Plants Committee shall:

a) consider progress and results reported by the Secretariat as per Decision 18.307; and

b) make recommendations to the Secretariat and the Conference of the Parties, as appropriate.

These recommendations could include timelines for completion of the Checklist, or the adoption of a standard nomenclature reference for Dalbergia spp., amongst others.

7. Further, at CoP18, the Conference of the Parties took note of the proposed work plan on nomenclature as contained in document CoP18 Doc. 99, paragraphs 16 to 18. The proposed workplan covered activities...
relating to: a) Aloe and Pachypodium; b) Cactaceae; c) Diospyros spp. and Dalbergia spp. (populations of Madagascar); d) Orchidaceae; and e) Taxus spp.

8. At its 25th meeting, the Plants Committee, through document PC25 Doc. 31, I also reported that in my role as new nomenclature specialist of the Plants Committee, I had identified the following aspect that could be included. This was relating to the nomenclature of Guibourbia pellegrina J.Léonard (=Copaifera coleosperma sensu Pellegrin, non Benth.) and G. coleosperma (Benth.) J.Léonard (=Copaifera coleosperma Benth.) in the relevant CITES checklist, which was brought to my attention and requires updating.

9. At its 25th meeting, the Plants Committee considered the following documents relating to Decisions in effect that are relevant to nomenclature of flora species listed in the Appendices, as well as the CoP18-CoP19 workplan on nomenclature, as follows:

a) document PC25 Doc. 31 on the Report of the nomenclature specialist and its Addendum set out the progress achieved in the implementation of Decisions on nomenclature for flora and on the workplan for the Plants Committee in matters related to nomenclature. This covers aspects relevant to checklists and standard references for aloes, cacti, Diospyros spp. and Dalbergia spp., Guibourtia spp., Appendix II-listed orchids, Pachypodium spp., and Taxus spp.;

b) document PC25 Doc. 32.1 on Orchids checklist in the Republic of Korea by the Republic of Korea and PC25 Doc. 32.2 on Appendix-II orchids checklist by the United Kingdom and Great Britain and Northern Ireland, consisting of comprehensive review and updates of current standard references for Appendix II-listed orchids; and

c) document PC25 Doc. 34 on Production of a CITES Checklist for Dalbergia spp. and its Addendum by the Secretariat, in cooperation with the nomenclature specialist, outlined the progress achieved in the implementation of Decision 18.307 to 18.308, with emphasis on the preliminary results of the “CITES Checklist for Dalbergia spp.”, commissioned by the Secretariat and developed by Royal Botanic Gardens, Kew (RBG, Kew). Annex 1 to the addendum summarized the methodology followed to produce the checklist. Annex 2 consisted of an Excel document on the progress of the literature review.

10. Based on the recommendations contained in documents PC25 Doc. 31, PC25 Doc. 32.1 and PC25 Doc. 32.2, the Plants Committee adopted the following recommendations:

a) Concerning the genus Aloe, the Committee agreed to submit for the consideration of the Conference of the Parties at its 19th meeting the inclusion of the supplement in the Annex to document PC25 Com. 5 containing the synonyms in new genera and additional revisions identified, in the standard nomenclature references in Resolution Conf. 12.11 (Rev. CoP18) on Standard nomenclature.

b) The Committee reminded the Parties that all Lomatophyllum names are scientific synonyms of CITES-listed Aloe species and are thus regulated under the Convention.

c) The Committee agreed to submit to the Conference of the Parties the draft decisions 19.A1 to 19.A2 on Aloe spp. contained in Annex 1 to the present document.

d) Concerning the genus Pachypodium, the Committee agreed to submit for the consideration of the Conference of the Parties, at its 19th meeting, the draft decisions 19.B1 to 19.B2 contained in Annex 1 to the present document.

e) Concerning Cactaceae and the preparation of a fourth edition of the CITES Cactaceae Checklist (CCC), the Committee agreed that the preparation of a fourth edition of the CITES Cactaceae Checklist (CCC) should be a low priority.

f) The Committee further agreed to propose to the Conference of the Parties, at its 19th meeting, the extension of Decisions 18.304 to 18.306 with the reference to CoP19 in Decision 18.306 changed to CoP20 as contained in draft decisions 18.304 (Rev. CoP19), 18.305 (Rev. CoP19) and 18.306 (Rev. CoP19) on Nomenclature (Cactaceae Checklist and its Supplement) as contained in Annex 1 to the present document.

g) The Committee noted that, concerning the Appendix-I synonymy of Aztekium ritteri and A. valdezi under the current standard nomenclatural reference, Mexico is assessing the pertinence of preparing an amendment proposal in line with the recommendations contained in paragraph 7 of the Addendum to
document PC25 Doc. 31. However, it may not be possible for Mexico to complete their assessment and to prepare and submit an uplisting proposal in time for the document submission deadline for the 19th meeting of the Conference of the Parties.

h) The Committee requested the nomenclature specialist to include as part of the proposed nomenclatural changes to be put before the Parties at the 19th meeting of the Conference of the Parties, a proposal to reinstate *Aztekium valdezii* as a separate species and restore it to Appendix II.

i) Concerning *Diospyros* spp. (populations of Madagascar), the Committee agreed to submit for consideration of the Conference of the Parties at its 19th meeting a new time-stamped download of the genus from *Vascular Plants of Madagascar* (formerly known as *A Catalogue of the Vascular Plants of Madagascar*) as noted in paragraph 8 of document PC25 Doc. 31 Addendum, as a standard nomenclatural reference in Resolution Conf. 12.11 (Rev. CoP18) in place of the existing reference of these species.

j) The Committee further agreed to submit to the Conference of the Parties at its 19th meeting the draft decisions 19.C1 to 19.C2 on *Nomenclature of Diospyros spp. (populations of Madagascar)* as contained in Annex 1 to the present document.

k) Concerning *Orchidaceae*, in collaboration with the United Kingdom of Great Britain and Northern Ireland and the Republic of Korea, the Committee agreed to submit for consideration of the Conference of the Parties, at its 19th meeting, a new standard nomenclature reference for Appendix-II listed orchids, taking into consideration recommendations contained in document PC25 Doc. 32.1 and Doc. 32.2, as well as additional feedback from range States and relevant experts, in line with the deadlines established by Resolution Conf. 12.11 (Rev. CoP18).

l) The Committee further agreed to submit to the Conference of the Parties, at its 19th meeting, the draft decisions 19.D1 to 19.D2 on *Nomenclature of Appendix-II listed orchids* as contained in Annex 1 to the present document.

m) Concerning *Taxus* spp., the Committee agreed to propose the retention of the standard nomenclature references as currently reflected in Resolution Conf. 12.11 (Rev. CoP18) and further agreed to propose that the Conference of the Parties at CoP19 adopt the following draft decisions 19.E1 to 19.E2 on *Nomenclature —Taxus spp.* contained in Annex 1 to the present document.

n) Concerning *Guibourtia* spp., the Committee agreed to submit to the Conference of the Parties at its 19th meeting an amendment to the standard nomenclature reference, regarding the synonyms of *Guibourtia pellegriniana* as outlined in paragraph 11 of the Addendum to document PC25 Doc. 31 and to reflect the following precisions relating to the distribution of *Guibourtia pellegriniana*:

   i) delete reference to *Copaifera coleosperma* Benth. (1865), as this is not a synonym of *Guibourtia pellegriniana*, but refers to the non-CITES listed *Guibourtia coleosperma* (Benth.) J.Léonard instead;

   ii) revise the taxon entry of *Guibourtia pellegriniana* J.Léonard to include the two misapplied synonyms indicated in paragraph 11 of document PC25 Doc. 31 Addendum;

   iii) add Angola as a range State for *Guibourtia pellegriniana* J.Léonard, in addition to Cameroon, the Republic of Congo, Gabon and Nigeria; and

   iv) add a comment to the ‘Nomenclatural notes’ field to the CITES website, including Species+ that careful attention should be paid to the authors of these synonym names.

o) The Committee agreed to include the nomenclature priorities outlined in paragraphs 12 to 15 of the Addendum to document PC25 Doc. 31 and consideration of the enforcement-related implications of the updates of standard nomenclature references for flora species listed in the Appendices in the CoP19-CoP20 workplan of the Plants Committee in matters related to nomenclature.

11. Further, based on the recommendations contained in document PC25 Doc. 34 on *Production of a CITES Checklist for Dalbergia spp.* and its Addendum, at PC25 the Plants Committee established an in-session working group chaired by the specialist on botanical nomenclature. Based on the working group’s outputs [see PC25 Com. 3 (Rev. by Sec.)], the Plants Committee adopted the following recommendations:
The Committee agreed to continue to provide feedback to the nomenclature specialist and Royal Botanic Gardens Kew (RBG Kew) on the progress of the outputs of the CITES Checklist for Dalbergia spp., including but not limited to, the chapter structure, content of the nomenclature chapter, the spreadsheet of Dalbergia spp. names, distribution information and the draft species profile (including views on the fields and icons it will contain) by 9 July 2021.

b) The Committee invited the Secretariat to request RBG Kew to incorporate, as appropriate, the feedback received to the checklist, so that the Secretariat can circulate an agreed version via a Notification to the Parties, in line with the process outlined in paragraph 2) i) of Resolution Conf. 12.11 (Rev. CoP18) on Standard nomenclature.

c) The Committee agreed to submit for consideration of the Conference of the Parties in time for its 19th meeting (CoP19), a final consolidated version of the CITES Checklist for Dalbergia spp., for inclusion in the standard nomenclatural reference for this genus in Resolution Conf. 12.11 (Rev. CoP18).

d) The Committee noted that further work towards an annotated checklist will be needed following CoP19, and therefore requested the Secretariat to consult with experts to obtain details of what this work will entail.

e) The Committee agreed to submit to the Conference of the Parties the extension and revision of Decisions 18.307 and 18.308 as contained in Annex 1 to the present document.

Proposals to amend the List of standard references in the Annex to Resolution Conf. 12.11 (Rev. CoP18) with respect to flora

12. In accordance with the Plants Committee agreements at PC25 relating to new standard nomenclature references for flora (paragraphs 9 and 10 supra), the proposed references for flora contained in the Notification and Annex 2 to the present document relate to the following taxa: Aloe spp. (Liliaceae), Aztekium valdezii (Cactaceae), Diospyros spp. (Ebenaceae) -populations of Madagascar, Dalbergia spp. (Leguminosae), Guibourtia pellegriniana (Leguminosae), and Orchidaceae (Appendix II listed orchids).

13. Concerning the Appendix-I synonymy of Aztekium ritteri and A. valdezii under the current standard nomenclatural reference, and following the Plants Committee agreement on this matter (see paragraph 10 g supra), on 20 May 2022 the Secretariat consulted Mexico on their intention to prepare an amendment proposal to transfer Aztekium valdezii in Appendix I. On 1 June 2022, Mexico replied that they were not in a position to present such a proposal in time for its consideration at CoP19.

14. Annex 4 to the present document includes an analysis of the impact of the nomenclature recommendations of these proposed nomenclature references.

Proposed workplan

15. The CoP19-CoP20 proposed workplan on matters relating to flora nomenclature consists of the relevant draft decisions on flora and joint draft decisions with the Animals Committee contained in Annex 1 to the present document.

16. Additionally, since PC25 the following aspects relating to nomenclature for flora species listed in the Appendices have been brought to my attention, which I suggest being added as part of the CoP19-CoP20 flora nomenclature workplan:

a) Dipteryx oleifera Benth. (1850) was found to be an older name for the Appendix III-listed Dipteryx panamensis (Pittier) Record & Mell (1924). The status of these names and their synonymy need to be updated;

b) changes were made to the classification of the genus Bulnesia. The Appendix II-listed Bulnesia sarmientoi Lorentz ex Griseb. was transferred to the genus Gonopterodendron as Gonopterodendron sarmientoi (Lorentz ex Griseb.) Godoy-Bürki. The status of these names and their synonymy need to be updated; and,

c) it was established that Turbinicarpus ×roeseiflorus Backeb. should be treated as a natural hybrid. This has implications on how it is treated in the Appendices. A decision is needed on the treatment of this name and its placement on the Appendices.
Fauna

17. At its 18th meeting (CoP18, Geneva, 2019), the Conference of the Parties adopted several Decisions that are relevant to nomenclature of fauna species listed in the Appendices, and others that are relevant to both fauna and flora. The implementation of these Decisions is outlined in the paragraphs below.

Bird family and order names

18. At its 18th meeting (CoP18, Geneva, 2019), the Conference of the Parties renewed one Decision on Nomenclature (Bird family and order names), as follows:

17.312 Directed to the Animals Committee

(Rev. CoP 18) The Animals Committee shall:

   a) evaluate the results of the analysis [of the implications of adopting a new standard nomenclature reference for birds at the family and order level]; and

   b) develop a recommendation for decision at the 19th meeting of the Conference of the Parties.

19. As noted in document CoP18 Doc. 99, paragraphs 34-42, a report was prepared to compare and contrast the adopted standard nomenclatural references for birds, being the 3rd edition of The Howard & Moore complete checklist of the birds of the world, plus additional standard references, with a) the 4th edition of The Howard & Moore complete checklist of the birds of the world, as well as b) the non-passerine and passerine volume of the HBW [Handbook of Birds of the World] and BirdLife International illustrated checklist of the birds of the world. This report was made available as Annex 5 of document CoP18 Doc. 99.

20. As it was not possible for the Animals Committee to consider and discuss this report and make a recommendation to CoP18, the Parties renewed the Decision and tasked the Animals Committee to come to a decision on updating bird nomenclature. The Animals Committee, through its working group on nomenclature, deliberated on the matter in detail, as noted in documents AC31 Doc.37 paragraphs 2-4, and AC31 Doc.37 Addendum paragraphs 6-9.

21. With regard to Decision 17.312 (Rev. CoP18) on Nomenclature (Bird family and order names), based on its deliberations the Animals Committee proposes the following decision to CoP19:

19.AN1 Directed to the Animals Committee

The Animals Committee shall

   a) evaluate the implications of adopting the HBW/BI Illustrated Checklist of the Birds of the World as the new standard nomenclature reference for birds at the species, family and order levels, including the production of a listing of supplementary nomenclatural standard references that may be needed; and

   b) develop a recommendation for decision at the 20th meeting of the Conference of the Parties.

Use of time-specific versions of online-databases as standard nomenclature references

22. At its 18th meeting (CoP18, Geneva, 2019), the Conference of the Parties adopted two Decisions on the Use of time-specific versions of online-databases as standard nomenclature references, as follows:

18.309 Directed to the Secretariat

The Secretariat shall:

   a) continue to engage copyright-holders of relevant online-databases that might serve as standard nomenclature references and explore the possible use of time-specific versions for CITES services; for example, relevant databases include but are not limited to WoRMS, Fish
Base, ESCHMEYER & FRICKE's *Catalog of Fishes, Amphibian Species of the World, and Corals of the World* as standard references;

b) report the results of its consultations to the Animals Committee.

18.310 Directed to the Animals Committee

The Animals Committee shall:

a) evaluate the results of the Secretariat's consultation;

b) develop recommendations on the use of time-specific online-databases as standard nomenclature references for decision by the Conference of the Parties at its 19th meeting.

23. The Secretariat has continued to engage relevant copyright holders to inquire whether a time-stamped version of their database is accessible and if it could be made available to the Secretariat. The Secretariat’s findings, as well as the details of the deliberations by the Animals Committee, can be found in documents AC31 Doc.37 paragraphs 5-7, and AC31 Doc.37 Addendum paragraph 10.

24. Based on its deliberations, the Animals Committee recommended that its nomenclature specialist continue to work with the Secretariat and the managers of the World Register of Marine Species (WoRMS) database to arrange an agreement to enable the preparation of a time-specific extract of sections of the WoRMS database, in a reader-friendly format such as a pdf document, for use as CITES standard nomenclature reference. Such arrangements are already in place with the copyright holders of other databases whose extracts have been or are proposed to be used as CITES standard nomenclature reference.

25. In addition, the Animals Committee through its Chair proposed to the Chair of the Standing Committee that the Standing Committee’s working group on electronic systems and information technologies be asked to consider, within its existing mandate, the recording of species nomenclature changes in electronic CITES permit systems. This Working Group discussed the matter in its two virtual meetings in 2021 and reviewed the use by Parties of the API system that is available to update the species lists in a virtual manner. The various experiences and uses Parties have been making with this API system allowed the group to make recommendations to WCMC in order improve the current system (see document SC74 Doc. 41).

Nomenclature and identification of corals:

26. At its 18th meeting (CoP18, Geneva, 2019), the Conference of the Parties adopted two Decisions on Nomenclature and identification of corals, as follows:

18.311 Directed to the Secretariat

a) seek, if possible, a time-specific version of the WoRMS database; and;

b) report on progress to the Animals Committee;

18.312 Directed to the Animals Committee

a) consider the report of the Secretariat and proceed towards recommending for adoption of a standard nomenclature reference for CITES-listed corals;

b) update its list of coral taxa for which identification to genus level is acceptable, but which should be identified to species level where feasible, once a new standard nomenclature reference for CITES-listed coral species has been identified and provide the updated list to the Secretariat for dissemination; and

c) report with recommendations to the 19th meeting of the Conference of the Parties.

27. The efforts by the Secretariat and the Animals Committee towards implementation of these Decisions were effectively summarised in paragraphs 23 and 24 above noting the implementation of Decisions 18.309 and 18.310.
28. The Animals Committee at its 31st meeting (AC31 online, May-June 2021) recommended that the Secretariat, the nomenclature specialist and the managers of the World Register of Marine Species (WoRMS) database work to prepare a time-specific extract of the appropriate coral section(s) of WoRMS into a format that is stable and easily accessible so that it can be used as a CITES Nomenclature Standard Reference. This work is continuing and may require a renewal of Decisions 18.311 and 18.312 or a mandate in a different format.

Nomenclature of Manidae spp.

29. At its 18th meeting, the Conference of the Parties adopted a Decision on Nomenclature of Manidae spp., as follows:

18.315 Directed to the Animals Committee

The Animals Committee shall examine the taxonomy and nomenclature of pangolins (Manidae spp.) and will propose a way forward to clarify a listing of pangolins on the Appendices.

30. Document AC31 Doc.38 summarised the confusing nature of Pangolin listings in the CITES Appendices, where the higher taxon Manis spp. is listed in Appendix II, whereas every currently recognised species in the genus Manis is individually listed in Appendix I. It notes that at CoP18 the Secretariat and nomenclature specialist of the Animals Committee concurred that changing the way that Pangolins are listed in the CITES Appendices to a manner that reflects biological reality, as well as consistency with Res. Conf. 9.24 (Rev. CoP17) on Criteria for Amendment of Appendices I and II, requires the preparation and submission of a formal Proposal to change the Appendices. A draft proposal to effect this change was presented as the Annex to document AC31 Doc. 38.

31. Discussion of the matter in preparation for AC31 generated support for the suggestion to work with the Depositary Government to prepare and submit a pangolin proposal as drafted in the Annex to AC31 Doc. 38. It was noted that the adoption by the Parties of a formal proposal placing the higher taxon Pholidota spp. in Appendix I would assert the will of the Parties to retain the listed species in Appendix I, as well as the Parties’ intent to place any future newly-discovered pangolin species also in Appendix I, superseding the original intent of past proposals. Such a higher-taxon listing would also be compliant with Resolution Conf. 9.24 (Rev. CoP17) Annex 3, section ‘Higher Taxa’.

32. However, substantive concerns were raised that a replacement of the 8 listed species in Appendix I with a higher taxon listing in Appendix I could represent a substantive expansion of the scope of the listing beyond the original intent of the proposals that placed the 8 species in Appendix I and advised against the replacement. In that case, without a higher taxon listing in Appendix I, the suggested deletion of the genus listing from Appendix II represents the possibility that a new Pangolin species discovered at a future date would not be included in either Appendix, and thus the deletion from Appendix II of the currently ‘empty’ genus listing also represents a potentially substantive change to the Appendices.

33. No consensus was achieved by the Animals Committee regarding these concerns, and further deliberations appeared desirable. The Animals Committee agreed to seek the views of the Standing Committee on the matter of benefits and impacts of higher taxon listings in the Appendices, taking into account document AC31 Doc. 38 with its Annex and its addendum, as well as the provisions of Resolution Conf. 9.24 (Rev. CoP17), Annex 3, as part of its work on Guidance for publication of the Appendices, or another process. The Standing Committee, at its 74th meeting, noted the matter as presented by the Chair of the Animals Committee in document SC74 Doc. 6 paragraphs 10-11 and agreed to propose the following draft decisions on higher taxon listings to CoP19:

Decision 19.AN2 Directed to the Animals and Plants Committees

The Animals and Plants Committees shall, taking into consideration document AC31 Doc. 38 with its Annex and its addendum, as well as the provisions of Resolution Conf. 9.24 (Rev. CoP17), Annex 3, review the impacts of existing and future higher taxon listings in the Appendices and propose further guidance and recommendations as necessary, for consideration by the Standing Committee.
Decision 19.AN3 Directed to the Standing Committee

The Standing Committee shall take into account the guidance and recommendations from the Animals and Plants Committees and make any recommendations to the 20th meeting of the Conference of the Parties, as required.

Proposals to amend the List of standard references in the Annex to Resolution Conf. 12.11 (Rev. CoP18) with respect to fauna

34. With the adoption of Proposals at CoP18, several animal species and genera were added to the CITES Appendices which were not covered by the standard nomenclature references as adopted at CoP18 [see Annex of Resolution Conf. 12.11 (Rev. CoP18)]. For these cases, nomenclature standard references were identified or prepared, and evaluated at the 31st meeting of the Animals Committee. It must be emphasised that in many cases, the information contained in such standard references covers more species than are listed in the CITES Appendices; this is to properly ‘frame’ the listed species in the context of the overall genus or higher taxon, and contrast listed species with non-listed species.

35. In addition, the Animals Committee, through its working group on nomenclature, also reviewed a large number of taxonomic and nomenclatural changes that have been proposed in the recent scientific literature. These proposed changes were listed in Annex 5 of document AC31 Doc. 37, and the results of the deliberations were reported in document AC31 Com.4 and its Annex.

36. The additional and supplementary nomenclature standard references recommended by the Animals Committee for adoption at the 19th meeting of the Conference of the Parties are presented in Annex 3 to this document. The implications of the adoption of these nomenclature standard references are specified in Annex 5 to this document.

37. In a substantial number of cases of taxonomic and nomenclatural changes proposed in the scientific literature, the Animals Committee at its 31st meeting advised against adoption at CoP19, and recommends that such cases, listed in the ‘Undecided’ and ‘Rejected’ worksheets of the Annex of document AC31 Com.4, be noted for possible further evaluation after CoP19 as part of regular activities under Res. Conf. 12.11 on Standard nomenclature.

Corrections of past oversights when updating nomenclature standard references

38. After the conclusion of AC31, two cases have been brought to the attention of the Animals Committee where differences in the taxonomy and nomenclature of taxa as listed in the CITES Appendices at that time based on the then-valid nomenclature standard reference, and the updated nomenclature in a newly-adopted nomenclature standard reference (that replaced the earlier standard reference). Both cases occurred in the adoption of Wilson and Reeder (2005) as updated nomenclature standard reference for mammals, and concern the Kulan (Equus hemionus) and the Blue Duiker (Philantomba monticola).

39. In the case of the Kulan, this concerns a resurrection of the form luteus as a valid subspecies of Equus hemionus by Grubb, in Wilson and Reeder (2005, page 632). The form luteus has generally been considered a synonym of the typical subspecies Equus hemionus hemionus, which is listed in CITES Appendix I. However, given that luteus is treated as a valid subspecies in the adopted nomenclature standard reference for mammals, the subspecies must be explicitly listed alongside the typical subspecies Equus hemionus hemionus and the subspecies Equus hemionus khur in CITES Appendix I.

40. The Blue Duiker Philantomba monticola, originally included in CITES as Cephalophus monticola and described in a 1984 CITES ID sheet, was split by Grubb, in Wilson and Reeder (2005, page 715), into two species, Philantomba monticola inhabiting Central, Eastern and Southern Africa, and Maxwell's Duiker Philantomba maxwelli in West Africa. Before this split, Maxwell’s Duiker was treated as a synonym of Blue Duiker, and therefore included in Appendix II as part of Cephalophus monticola. This taxonomic split was apparently overlooked, possibly as part of the genus split-off for monticola and maxwelli from Cephalophus to Philantomba at the same time, and Philantomba maxwelli is not listed in CITES Appendix II at present. This population / species has never been explicitly excluded from the CITES Appendices, nor are any nomenclatural updates or changes noted in the History of CITES listings for which a 2021 extract, and the 2011 pdf were checked. The conclusion must be that Maxwell's Duiker was part of the CITES Appendix II listing of Blue Duiker, and its taxonomic split from Blue Duiker and elevation to valid species rank should not affect its coverage by CITES; it is therefore still included in Appendix II, and in accordance with the adopted
standard nomenclature reference for mammals the species *Philantomba maxwelli* must be listed separately in Appendix II.

**Taxonomy and Nomenclature of African Elephants (*Loxodonta spp.*)**

41. At AC31, the Committee discussed the topic of CITES nomenclature for African Elephants (*Loxodonta africana*) in the context of progressive scientific acceptance of the African Forest Elephant (*Loxodonta cyclotis*) as a separate species. The Committee is mindful of the extensive work and documentation in CITES concerning African elephants, including past deferment of recognition of *L. cyclotis* as valid when standard nomenclature for mammals was updated. The Animals Committee concluded that it would be prudent to not hastily add this case to nomenclature matters for adoption at CoP19 under Res. Conf. 12.11. Instead, it is proposed to take adequate time to consider the implications for CITES of such a nomenclatural change. Therefore, the Animals Committee proposed the following set of Decisions for consideration at CoP19, which were presented to the Standing Committee at its 74th meeting for review and comment, and were noted by the Committee:

**19.AN4 Directed to the Secretariat:**

The Secretariat shall:

a) issue a Notification seeking the perspectives of Parties and other stakeholders on the potential effects of recognizing African forest elephant (*Loxodonta cyclotis*) as a separate species to African savannah elephant (*Loxodonta africana*) for CITES purposes;

b) develop a list of all current Resolutions and Decisions of the Conference of the Parties that would be impacted by such a change of nomenclature;

c) collate the responses to the Notification to the Parties and prepare a review of the potential impacts of recognising *L. cyclotis* as a separate species for CITES purposes, including the potential impacts on Resolutions and Decisions of the Conference of the Parties; and

d) prepare a report of its findings pursuant to a), b) and c) above and submit this report to the Standing Committee for its consideration.

**19.AN5 Directed to the Animals Committee**

The Animals Committee shall:

a) review the taxonomic-nomenclatural history of African elephant *Loxodonta africana* in CITES and the nomenclature that reflects accepted use in biology, at its 32nd meeting; and

b) if appropriate, make a recommendation on adopting a new standard nomenclature reference for African elephants, for decision at the 20th meeting of the Conference of the Parties.

**19.AN6 Directed to the Standing Committee**

The Standing Committee shall:

a) review the report submitted by the Secretariat under paragraph d) of Decision 19.BB; and

b) provide advice and any recommendations on the potential impacts of recognizing *L. cyclotis* as a separate species for CITES purposes, including the potential impacts on Resolutions and Decisions of the Conference of the Parties, for consideration at the 20th meeting of the Conference of the Parties.

**Higher taxonomy of Lizards**

42. The current nomenclature standard for the delimitation of families of lizards (Sauria) dates from 1998. Since then, several groups (subfamilies) have been elevated to family rank, including the Sphaerodactylidae out of the Gekkonidae, as well as similar family elevations having occurred among the snakes (Serpentes). Moreover, the primary division of Sauria and Serpentes is no longer generally recognized, with these groups now combined with the Amphisbaenida in the order Squamata.
43. At AC31, the Committee recommended that its nomenclature specialist continue to seek input and perspectives from reptile taxonomists and other sources, as part of regular activities under Res. Conf. 12.11 on Standard Nomenclature, and that no specific Decision was needed.

*First Workshop on the Governance of Taxonomic Lists*

44. The specialist on zoological nomenclature of the Animals Committee participated by invitation in the First Workshop on the Governance of Taxonomic Lists, held at Charles Darwin University in Darwin, Australia, 10 to 12 February 2020, under the auspices of the International Union of Biological Sciences. This workshop was intended to be an initial step towards the creation and governance of a broadly-accepted global checklist of all biodiversity, with appropriate governance of the list, agreed processes for acceptance and updating of component checklists, and standardization and archival protocols to enable the adoption and use of this list, or sections thereof, by taxonomists, conservationists, governments and biodiversity-related multilateral environmental agreements (MEAs) such as CITES and the Convention on the Conservation of Migratory Species of Wild Animals (CMS; also represented at the workshop). The workshop formed a working group to lead a consultative process that is expected to take a number of years to take shape. The anticipated standardised global checklist of species is likely to be highly useful for the implementation of CITES, and would facilitate harmonisation in species names across MEAs. The organizers of the workshop and process are to be commended for seeking to understand and incorporate, from the beginning, the particular needs of MEAs for checklists.

*Flora and fauna*

*Nomenclature of Appendix III listings*

45. At the 18th meeting of the Conference of the Parties, the Parties adopted Decision 18.313, as follows:

**18.313 Directed to the Animals and Plants Committees**

The Animals and Plants Committees shall, taking into consideration the current guidance in Resolution Conf. 12.11 (Rev. CoP18) on Standard nomenclature, paragraph 2 g), evaluate how nomenclature changes affect Appendix-III listings and propose further guidance and recommendations as necessary, for consideration by the Standing Committee at its 73rd meeting that address how such nomenclature changes are to be handled.

46. The members of the Animals and Plants Committees considered the information provided in document AC31 Doc. 39/PC25 Doc. 33 and its Annex, and concerns were raised that the document may not have captured the full extent of complexity with regard to the possible impact of synonymisations ('lumping') of species, whether the nomenclatural process for Appendix III should correspond to that for Appendices I and II, as well as the need for the designation of standard references, and the relevance of geography in the context of some Appendix III listings pertaining to just the population of a particular Party and others pertaining to the species across its entire geographical area of distribution. The fundamental difference was highlighted between Appendix III listings being unilaterally enacted by one (or more) Parties, while listings in Appendices I and II are adopted by the Conference of Parties, and noting the diverging possible legal interpretations that either: a) an Appendix-III listed species is only listed within the listing Party’s jurisdiction, and nothing more is required from other Parties other than cooperation in the form of certifying that specimens in trade are not part of the listing Party’s population; or that b) the entire species is listed throughout its geographic range, and is subject to different regulatory regimes with regard to trade by listing and non-listing Parties.

47. The joint meeting of AC31 and PC25 concluded that it had not been possible to prepare an agreed revision of the Annex to Doc AC31 Doc. 39/PC25 Doc. 33 that adequately addressed the concerns raised, and considered that further deliberations on this complex topic were necessary. These deliberations need to take place in close engagement with the Standing Committee and the Secretariat to further define the scope and focus of the documentation to be prepared for the Standing Committee by the Plants and Animals Committees. As these deliberations will need to continue after the 19th meeting of the Conference of the Parties, the Animals and Plants Committees agreed to propose the renewal of Decisions 18.313 and 18.314 as shown in Annex 1 of the present document.

48. The Standing Committee, at its 74th meeting, was invited to review these draft decisions, and agreed to submit these draft decisions on Nomenclature of Appendix-III listings to CoP19.
Acknowledgments

49 The nomenclature specialists would like to thank the following groups for their hard work and dedication in producing high-quality outputs that can be proposed as standard CITES nomenclature references:

a) the team at Royal Botanic Gardens, Kew and their group of collaborators for producing the CITES Checklist of Dalbergia spp.;

b) the curators of the Vascular Plants of Madagascar website and their team of collaborators for making available the newly updated time-stamped download for Diospyros spp. (populations of Madagascar); and,

c) the teams at Royal Botanic Gardens, Kew and United Nations Environment Programme World Conservation Monitoring Centre and their collaborators for producing the CITES Appendix II Orchid Checklist.

50. The nomenclature specialists would also like to thank the members of the AC and PC working groups on nomenclature for their thoughtful deliberations and clear directions, the numerous individuals in the CITES and academic communities who alerted them to taxonomic-nomenclatural updates published in the scientific literature; and the members of the Secretariat.

Recommendations

51. The Conference of the Parties is invited to:

a) adopt the draft decisions presented in Annex 1 of present document;

b) adopt the proposed revisions to the Annex to Resolution Conf. 12.11 (Rev. CoP18) concerning flora as presented in Annex 2 of the present document; and

c) adopt the proposed revisions to the Annex to Resolution Conf. 12.11 (Rev. CoP18) concerning fauna as presented in Annex 3 of the present document.

COMMENTS OF THE SECRETARIAT

A. The Secretariat acknowledges the work done by the specialist on zoological nomenclature (Animals Committee) and the specialist on botanical nomenclature (Plants Committee), all provided in a voluntary capacity.

Flora

B. The Secretariat recommends that the Conference of the Parties adopt the draft decisions proposed by the Plants Committee contained in Annex 1 to the present document. The Secretariat also recommends deleting Decisions 18.304 to 18.306 on Nomenclature (Cactaceae Checklist and its Supplement) and Decisions 18.307 to 18.308 on Production of a CITES Checklist for Dalbergia spp. as they have been carried forward in the new set of draft decisions. Regarding the latter, the Secretariat has also identified an alternative, as explained in paragraph E below.

C. The Secretariat recommends the adoption of the proposed changes to the standard nomenclature references concerning flora, as presented in Annex 2 to the present document, and the revisions that their adoption will entail to the Annex to Resolution Conf. 12.11 (Rev. CoP18) on Standard nomenclature. Regarding the revisions proposed to the nomenclature reference for ‘Diospyros spp. – populations of Madagascar’, the Secretariat recommends an additional editorial revision, to delete the external URL and retain only the 16 May 2022 time-stamped URL which is hosted by the CITES website. Should this revision be adopted, the reference for ‘Diospyros spp. – populations of Madagascar’ would read:

Lowry et al. 2022. Large tree species of Diospyros from Madagascar. Catalogue of Plants of Madagascar. Accessible at:
D. Regarding the proposed reference for the genus *Dalbergia* resulting from the implementation of Decisions 18.307 to 18.308, the Secretariat thanks the European Union for providing the extrabudgetary funds for the development of the *CITES Checklist for Dalbergia spp.* (Cowell et al., 2022). The Secretariat has identified additional work that will allow for this reference to be improved in the upcoming intersessional cycle. This could entail, *inter alia*, the following:

a) the incorporation of ongoing updates to the taxonomy of Malagasy species, as it is expected that several new species will 'emerge' from this work;

b) updates to the species profiles for species native to Asia, the Americas and the Congo Basin;

c) development and incorporation of wood identification features to the species’ profiles (*e.g.* wood anatomy and photographs or herbarium specimen scans);

d) development of expert authenticated molecular tools for species-level identification of wood specimens of *Dalbergia* spp.; and,

e) updates to the common trade names.

E. The Secretariat draws Parties’ attention to paragraph 3 of Resolution Conf. 12.11 (Rev. CoP18) which outlines the procedure for updating current standard nomenclatural references and adoption of new ones. Therefore, the draft revisions to Decisions 18.307 to 18.308 could be also achieved through the implementation of the process outlined in the Resolution and taking into account the work commissioned thus far *supra*.

F. The Secretariat further welcomes the proposed workplan on nomenclature for flora outlined in paragraphs 15 and 16 of the present document. This workplan could potentially be expanded should additional draft decisions relating to nomenclature for flora be adopted following consideration of the recommendations contained in documents CoP19 Doc. 84.2 on *Standard nomenclature for Dipteryx spp.*; CoP19 Doc. 84.3 on *Standard nomenclature for Khaya spp.*; and CoP19 Doc. 84.4 on *Standard nomenclature for Rhodiola spp.* The Secretariat therefore draws Parties’ attention to its comments on said documents.

Fauna

G. The Secretariat recommends that the Conference of the Parties adopt the draft decisions on nomenclature for fauna proposed by the Animals Committee contained in Annex 1 to the present document.

H. In addition to the draft decisions presented in Annex 1, the Secretariat recommends the renewal of Decisions 18.309 and 18.310 on *Use of time-specific versions of online-databases as standard nomenclature references* and Decisions 18.311 and 18.312 on *Nomenclature and identification of corals*, as mentioned in paragraph 28. Concerning this work, the Secretariat has continued to engage relevant copyright holders to inquire whether a time-stamped version of their database is accessible and if it could be made available to the Secretariat. An agreement to enable the preparation of a time-specific extract of sections of the WoRMS database, in a reader-friendly format such as a pdf document, for use as CITES standard nomenclature reference, has yet to be finalized. The Secretariat is of the view that access to time stamped versions of online databases is a matter that may ultimately be best placed within Resolution Conf. 12.11 (Rev. CoP18) on *Standard nomenclature*, but as the Conference of the Parties has yet to make a recommendation based on the implementation of Decisions 18.309 to 18.312, the Secretariat suggests that this work continue.

The renewed decisions would read as follows:

Proposed new text is *underlined*, proposed deletions are indicated in *strikethrough*.

**18.310 (Rev. CoP19) Directed to the Animals Committee**

The Animals Committee shall:
a) evaluate the results of the Secretariat’s consultation;

b) develop recommendations on the use of time-specific online-databases as standard nomenclature references for decision by the Conference of the Parties at its 19th meeting.

18.312 (Rev. CoP19) Directed to the Animals Committee

The Animals Committee shall

a) consider the report of the Secretariat and proceed towards recommending for adoption of a standard nomenclature reference for CITES-listed corals;

b) update its list of coral taxa for which identification to genus level is acceptable, but which should be identified to species level where feasible, once a new standard nomenclature reference for CITES-listed coral species has been identified and provide the updated list to the Secretariat for dissemination; and

c) report with recommendations to the 19th meeting of the Conference of the Parties.

I. The Secretariat recommends that the Parties adopt the proposed changes to the standard nomenclature references concerning fauna, as presented in Annex 3 to the present document. The impact of the recommended changes in nomenclature for fauna are detailed in Annex 5.

J. The Secretariat notes that Paragraph 38 highlights that with the adoption of Wilson and Reeder (2005) as updated nomenclature standard reference for mammals, differences in the taxonomy and nomenclature of taxa as listed in the CITES Appendices at that time based on the then-valid nomenclature standard reference had occurred. This concerned the Kulan (Equus hemionus) and the Blue Duiker (Philantomba monticola).

K. In the case of the Kulan (Equus hemionus), Wilson and Reeder (2005) recognizes the form luteus as a subspecies of Equus hemionus, although it has otherwise been considered a synonym of the subspecies Equus hemionus hemionus, which is listed in CITES Appendix I. Given that luteus is treated as a valid subspecies in the adopted nomenclature standard reference for mammals, the Secretariat therefore recommends the adoption of the proposal that the subspecies Equus hemionus luteus be listed alongside the subspecies Equus hemionus hemionus and Equus hemionus khur in CITES Appendix I.

L. In the case of the Blue Duiker (Philantomba monticola), the species was originally included in the Appendices as Cephalophus monticola, which was split by the adopted nomenclatural reference Wilson and Reeder (2005) into two species, Philantomba monticola and Philantomba maxwelli (Maxwell's Duiker). The Secretariat recommends the adoption of the Animals Committee's proposal to include the name Philantomba maxwelli separately in Appendix II, in accordance. Such a change would not change the substance of the listing, only the nomenclature.

M. The Secretariat notes that in paragraph 44, the Animals Committee states that its specialist on zoological nomenclature participated, by invitation, in the First Workshop on the Governance of Taxonomic Lists, held at Charles Darwin University in Darwin, Australia, 10 to 12 February 2020, under the auspices of the International Union of Biological Sciences. The Secretariat concurs with the Committee that the anticipated standardized global checklist of species is likely to be highly useful for the implementation of CITES and would facilitate harmonization in species names across multilateral environmental agreements. To provide a mandate for the Committee's specialist on zoological nomenclature to represent CITES in this initiative, the Secretariat proposes that the Parties adopt the following draft decision on Governance of Taxonomic Lists:

19.AA Directed to the Animals and Plants Committees

Subject to external funding, the Animals and Plants Committee shall, through their respective nomenclature specialists, participate in the initiative of the International Union of Biological Sciences to develop a standardized global of species, and report on progress to the 20th meeting of the Conference of the Parties.
N. The Secretariat also recommends deleting Decisions 18.313 and 18.314 on *Nomenclature of Appendix-III listings*. and Decision 17.312 (Rev. CoP18) on *nomenclature (Bird family and order names)* as they have been carried forward in the new set of draft decisions contained in Annex 1 to the present document. Concerning Decision 18.315 on *Nomenclature of Manidae spp.*, the Animals Committee reviewed the taxonomy and nomenclature of pangolins at its 31st meeting and agreed to seek the views of the Standing Committee on the matter of benefits and impacts of higher taxon listings in the Appendices, taking into account document AC31 Doc. 38 with its Annex and its addendum, as well as the provisions of Resolution Conf. 9.24 (Rev. CoP17), Annex 3, as part of its work on Guidance for publication of the Appendices, or another process. As this issue will now be addressed under the broader discussion on higher taxon listings proposed in draft decision 19.AN2 and 19.AN3, the Secretariat is of the view that Decision 18.315 can be deleted.

Summary of Secretariat’s recommendations

O. The Secretariat recommends that the Conference of the Parties:

a) adopt the draft decisions in Annex 1 and renew Decisions 18.309 and 18.310 on *Use of time-specific versions of online-databases as standard nomenclature references* and Decisions 18.311 and 18.312 on *Nomenclature and identification of corals*, as outlined in paragraph H above;

b) adopt the draft decision on *Governance of Taxonomic Lists* presented in paragraph M above;

c) delete the following Decisions:

- Decisions 18.304 to 18.306 on *Nomenclature (Cactaceae Checklist and its Supplement)*
- Decisions 18.307 to 18.308 on *Production of a CITES Checklist for Dalbergia spp*
- Decision 17.312 (Rev. CoP18) on *nomenclature (Bird family and order names)*
- Decisions 18.313 and 18.314 on *Nomenclature of Appendix-III listings*
- Decision 18.315 on *Nomenclature of Manidae spp.*

d) adopt the proposed changes to the standard nomenclature references presented in Annexes 2 (for flora) and 3 (for fauna), and the proposed amendment to Resolution Conf. 12.11 (Rev. CoP18) on *Standard nomenclature* outlined in paragraph C above; and

e) agree to amend the Appendices to reflect the issues raised in paragraphs K and L above.
NEW OR REVISED DRAFT DECISIONS PROPOSED BY THE ANIMALS AND/OR PLANTS COMMITTEES

Change to existing Decisions are shown underlined (additions) or in strikethrough (deletions)

Aloe spp.

19.A1 Directed to the Secretariat

The Secretariat shall, in close cooperation with the nomenclature specialist of the Plants Committee:

a) subject to the availability of external resources, commission the drafting of an updated standard nomenclature reference for Aloe spp., taking into consideration relevant elements of paragraph 5 of the Addendum to document PC25 Doc. 31 and the Annex to PC25 Com. 5; and

b) report on progress or results of this work to the Plants Committee.

19.A2 Directed to the Plants Committee

The Plants Committee shall:

a) consider progress and results reported by the Secretariat as per Decision 19.A1;

b) provide input to assist with the preparation of the updated Aloe spp. checklist, as noted in paragraph 5 of the Addendum to document PC25 Doc. 31; and

c) make recommendations to the Conference of the Parties, as appropriate.

Pachypodium spp.

19.B1 Directed to the Secretariat

The Secretariat shall, in close cooperation with the nomenclature specialist of the Plants Committee:

a) subject to the availability of external resources, commission the drafting of an updated standard nomenclature reference for Pachypodium spp., taking into consideration relevant elements of paragraph 6 of the Addendum to document PC25 Doc. 31; and

b) report on progress or results of this work to the Plants Committee.

19.B2 Directed to the Plants Committee

The Plants Committee shall:

a) consider progress and results reported by the Secretariat as per Decision 19.B1;

b) provide input to assist with the preparation of the updated Pachypodium checklist, as noted in paragraph 6 of the Addendum to document PC25 Doc. 31; and

c) make recommendations to the Conference of the Parties, as appropriate.
Nomenclature (Cactaceae Checklist and its Supplement)

18.304 (Rev. CoP19) Directed to Parties

Parties shall inform the Secretariat on their experience in using the CITES Cactaceae Checklist (3rd edition) and its Supplement (2018) and any issues that may arise as they apply these lists, including feedback to improve it in the light of relevant updates of cacti taxonomy.

18.305 (Rev. CoP19) Directed to the Secretariat

The Secretariat shall:

a) liaise with the United Nations Environment Programme – World Conservation Monitoring Centre (UNEP-WCMC) to obtain feedback on the utility of the CITES Cactaceae Checklist (3rd edition) and its Supplement (2018) and any queries that arise as they update relevant databases, taking into account feedback provided by Parties as per Decision 18.304 (Rev. CoP19); and

b) report to the Plants Committee of this feedback and any comments it receives from the Parties in order for the Committee to review this at its regular meetings.

18.306 (Rev. CoP19) Directed to the Plants Committee

The Plants Committee shall review any report from the Secretariat related to the implementation of Decision 18.305 (Rev. CoP19) and, as appropriate, make recommendations to the Conference of the Parties at its 19th 20th meeting.

Nomenclature of Diospyros spp. (populations of Madagascar)

19.C1 Directed to the Secretariat

The Secretariat shall, in close cooperation with the nomenclature specialist of the Plants Committee:

a) subject to the availability of external resources, commission the drafting of an updated standard nomenclature reference of Diospyros spp. (populations of Madagascar), taking into consideration relevant elements of paragraph 8 of the Addendum to document PC25 Doc. 31; and

b) report on progress or results of this work to the Plants Committee.

19.C2 Directed to the Plants Committee

The Plants Committee shall:

a) consider progress and results reported by the Secretariat as per Decision 19.C1; and

b) make recommendations to the Conference of the Parties, as appropriate.

Nomenclature of Appendix-II listed orchids

19.D1 Directed to the Secretariat

The Secretariat shall:

a) seek feedback from Parties and relevant experts on their experience in using the standard nomenclatural reference for Appendix-II listed orchids, in Resolution Conf. 12.11 (Rev. CoP19) on Standard nomenclature, including suggestions to improve the standard nomenclature in light of relevant updates in orchid taxonomy;

b) subject to the availability of external resources, and in close collaboration with the nomenclature specialist of the Plants Committee, commission the drafting of an update of the standard
nomenclature references for Appendix II-listed orchids, taking into account feedback received under paragraph a) of this Decision; and

c) report to the Plants Committee the feedback received for review.

19.D2 Directed to the Plants Committee

The Plants Committee shall review any report from the Secretariat related to the implementation of Decision 19.D1 and, as appropriate, make recommendations to the Conference of the Parties.

Nomenclature — Taxus spp.

19.E1 Directed to the Secretariat

The Secretariat shall, in close cooperation with the nomenclature specialist of the Plants Committee:

a) subject to the availability of external resources, commission the drafting of an update of the standard nomenclature reference for Taxus spp., taking into consideration relevant elements of paragraph 10 of the Addendum to document PC25 Doc. 31; and

b) report on progress or results of this work to the Plants Committee.

19.E2 Directed to the Plants Committee

The Plants Committee shall:

a) consider progress and results reported by the Secretariat as per Decision 19.E1; and

b) make recommendations to the Conference of the Parties, as appropriate.

Production of a CITES Checklist for Dalbergia spp.

18.307 (Rev. CoP19) Directed to the Secretariat

The Secretariat shall, in close cooperation with the nomenclature specialist of the Plants Committee:

a) subject to availability of external resources, undertake the development of an annotated CITES Checklist of Dalbergia spp., taking into consideration:

i) the Checklist as included in Resolution Conf. 12.11 (Rev. CoP19) on Standard nomenclature; relevant elements of paragraph 7 of document CoP18 Doc. 99, as well as the pertinence of including a distinction between timber and non-timber species of Dalbergia spp.;

ii) the required research and other work needed for the production of such a Checklist; and

iii) aspects related to its publication; and

b) report on progress or results of this process to the Plants Committee at its regular meetings and seek its advice and input.

18.308 (Rev. CoP19) Directed to the Plants Committee

The Plants Committee shall:

a) consider progress and results reported by the Secretariat as per Decision 18.307 (Rev. CoP19); and

b) make recommendations to the Secretariat and the Conference of the Parties, as appropriate.
These recommendations could include timelines for completion of the Checklist, or the adoption of a standard nomenclature reference for Dalbergia spp., amongst others.

Nomenclature (Bird family and order names)

19.AN1 Directed to the Animals Committee

a) evaluate the implications of adopting the HBW/BI Illustrated Checklist of the Birds of the World as the new standard nomenclature reference for birds at the species, family and order levels, including the production of a listing of supplementary nomenclatural standard references that may be needed; and

b) develop a recommendation for decision at the 20th meeting of the Conference of the Parties.

Higher Taxon Listings in the Appendices (submitted on behalf of the Standing Committee)

19.AN2 Directed to the Animals and Plants Committees

The Animals and Plants Committees shall, taking into consideration document AC31 Doc. 38 with its Annex and its addendum, as well as the provisions of Resolution Conf. 9.24 (Rev. CoP17), Annex 3, review the impacts of existing and future higher taxon listings in the Appendices and propose further guidance and recommendations as necessary, for consideration by the Standing Committee.

19.AN3 Directed to the Standing Committee

The Standing Committee shall take into account the guidance and recommendations from the Animals and Plants Committees and make any recommendations to the 20th meeting of the Conference of the Parties, as required.

Taxonomy and Nomenclature of African Elephants (Loxodonta spp.)

19.AN4 Directed to the Secretariat:

The Secretariat shall:

a) issue a Notification seeking the perspectives of Parties and other stakeholders on the potential effects of recognizing African forest elephant (Loxodonta cyclotis) as a separate species to African savannah elephant (Loxodonta africana) for CITES purposes;

b) develop a list of all current Resolutions and Decisions of the Conference of the Parties that would be impacted by such a change of nomenclature;

c) collate the responses to the Notification to the Parties and prepare a review of the potential impacts of recognising L. cyclotis as a separate species for CITES purposes, including the potential impacts on Resolutions and Decisions of the Conference of the Parties; and

d) prepare a report of its findings pursuant to a), b) and c) above and submit this report to the Standing Committee for its consideration.

19.AN5 Directed to the Animals Committee

The Animals Committee shall:

a) review the taxonomic-nomenclatural history of African elephant Loxodonta africana in CITES and the nomenclature that reflects accepted use in biology, at its 32nd meeting; and

b) if appropriate, make a recommendation on adopting a new standard nomenclature reference for African elephants, for decision at the 20th meeting of the Conference of the Parties.

19.AN6 Directed to the Standing Committee

The Standing Committee shall:
a) review the report submitted by the Secretariat under paragraph d) of Decision 19.BB; and

b) provide advice and any recommendations on the potential impacts of recognizing *L. cyclo* as a separate species for CITES purposes, including the potential impacts on Resolutions and Decisions of the Conference of the Parties, for consideration at the 20th meeting of the Conference of the Parties.

Nomenclature of Appendix III listings – (submitted on behalf of the Standing Committee)

18.313 (Rev. CoP19) Directed to the Animals and Plants Committees

The Animals and Plants Committees shall, taking into consideration the current guidance in Resolution Conf. 12.11 (Rev. CoP18) on Standard nomenclature, paragraph 2 g), evaluate how nomenclature changes affect Appendix-III listings and propose further guidance and recommendations as necessary, that address how such nomenclature changes are to be handled, for consideration by the Standing Committee.

18.314 (Rev. CoP19) Directed to the Standing Committee

The Standing Committee, in consultation with the Secretariat, shall take into account the guidance and recommendations from the Animals and Plants Committees and make recommendations to address nomenclature changes that affect an Appendix-III listing, including possible amendments to Resolution Conf. 12.11 (Rev. CoP18) or Resolution Conf. 9.25 (Rev. CoP18) on Inclusion of species in Appendix III, for consideration at the 20th meeting of the Conference of the Parties.
Excerpt of Annex to Resolution Conf 12.11 (Rev. CoP18): Proposed changes to Standard nomenclature references for flora*

*Strikethrough denotes a deletion, underline denotes an addition.

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<thead>
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<th>Flora</th>
<th>Taxon concerned</th>
<th>Taxonomic reference</th>
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<tr>
<td>AMARYLLIDACEAE</td>
<td>Cyclamen, Galanthus and Sternbergia</td>
<td>Davis, A.P. et al. (1999). <em>CITES Bulb Checklist</em>, compiled by the Royal Botanic Gardens, Kew, United Kingdom of Great Britain and Northern Ireland as a guideline when making reference to the names of species of Cyclamen and Galanthus and Sternbergia</td>
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<td>PRIMULACEAE</td>
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<td>CACTACEAE</td>
<td>All Cactaceae, except <em>Aztekium valdezi</em></td>
<td><em>CITES Cactaceae Checklist</em> third edition (2016, compiled by D. Hunt) as a guideline when making reference to names of species of Cactaceae, and the amendments and updates outlined in <em>A Supplement to the CITES Cactaceae Checklist Third Edition 2016</em> (Hunt, D. 2018). The checklist and its supplement can be found on the website of the Royal Botanic Gardens, Kew, UK at “goo.gl/M26yL8”.</td>
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<td><strong>CYCADACEAE, STANGERIACEAE and ZAMIACEAE</strong></td>
<td>All Cycadaceae, Stangeriaceae and Zamiaceae. The World List of Cycads: CITES and Cycads: Checklist 2013 (Roy Osborne, Michael A. Calonje, Ken D. Hill, Leonie Stanberg and Dennis Wm. Stevenson) in <em>CITES and Cycads a user’s guide</em> (Rutherford, C. et al., Royal Botanic Gardens, Kew. UK 2013), as a guideline when making reference to names of species of Cycadaceae, Stangeriaceae and Zamiaceae.</td>
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<td>LEGUMINOSAE</td>
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<td>A Preliminary Dalbergia checklist for Madagascar for CITES (CVPM 2014) based on the Catalogue of the Vascular Plants of Madagascar is available as a pdf on the CITES website as SC65 Inf. 21. This reference is to be used as a guideline when making reference to the names of species of Dalbergia from Madagascar. See: <a href="https://cites.org/sites/default/files/eng/com/sc/65/Inf/E-SC65-Inf-21.pdf">https://cites.org/sites/default/files/eng/com/sc/65/Inf/E-SC65-Inf-21.pdf</a></td>
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<td>For information only: Updates on new names will be regularly made available on the online database “Catalogue of the Vascular Plants of Madagascar”. (<a href="http://www.tropicos.org/Project/Madagascar">http://www.tropicos.org/Project/Madagascar</a>)</td>
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<td>Gagnon, E., Bruneau, A., Hughes, C.E., de Queiroz, L. P. &amp; Lewis, G.P. (2016). A new generic system for the pantropical Caesalpinia group (Leguminosae) as a guideline when making reference to the name of this taxon. This reference can be found on <a href="https://phytokeys.pensoft.net/articles.php?id=9203">https://phytokeys.pensoft.net/articles.php?id=9203</a>, with free access, and additional information on the taxon can be found at <a href="http://floradobrasil.jbrj.gov.br/reflora/listaBrasil">http://floradobrasil.jbrj.gov.br/reflora/listaBrasil</a></td>
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<td>Laelia, Phalaenopsis, Pleione and Sophronitès (Volume 1, 1995), and Cymbidium, Dendrobium, Dica, Dracula and Encyclia (Volume 2, 1997), and Aerangis, Angraecum, Ascocentrum, Bletilla, Brassavola, Calanthe, Catasetum, Miltonia, Miltonioides and Miltoniopsis, Renanthera, Renantherella, Rhynchostylis, Rossieglossum, Vanda and Vandopsis (Volume 3, 2001); and Aerides, Coelogyne, Comparettila and Masdevallia</td>
<td>CITES Orchid Checklist, (compiled by the Royal Botanic Gardens, Kew, United Kingdom) as a guideline when making reference to the names of species of Cattleya (not C. jongheana), Cypripedium, Laelia (not Laelia jongheana/Cattleya jongheana), Phalaenopsis, Pleione and Sophronitès (Volume 1, 1995) and Cymbidium, Dendrobium (not D. cruentum), Dica, Dracula and Encyclia (Volume 2, 1997), and Aerangis (not A. ellisi), Angraecum, Ascocentrum, Bletilla, Brassavola, Calanthe, Catasetum, Miltonia, Miltonioides and Miltoniopsis, Renanthera, Renantherella, Rhynchostylis, Rossieglossum, Vanda and Vandopsis (Volume 3, 2001); and Aerides, Coelogyne, Comparettila and Masdevallia (Volume 4, 2006).</td>
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<td>CITES checklist for <em>Bulbophyllum</em> and allied taxa (Orchidaceae). Sieder, A., Rainer, H., Kiehn, M. (2007): Address of the authors: Department of Biogeography and Botanical Garden of the University of Vienna; Rennweg 14, A-1030 Vienna (Austria) as a guideline when making reference to the names of species of <em>Bulbophyllum</em>.</td>
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<td><em>Dypsis decipiens</em> and <em>Dypsis decaryi</em>.</td>
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<td>Proposed Standard Reference for two CITES-listed palms endemic to Madagascar (CVPM 2016) based on the Catalogue of the Vascular Plants of Madagascar can be found as a pdf on the US Fish &amp; Wildlife Service website. This is to be used as a guideline when making reference to <em>Dypsis decipiens</em> and <em>Dypsis decaryi</em>. See: <a href="http://www.fws.gov/international/">http://www.fws.gov/international/</a>.</td>
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<td>World Checklist and Bibliography of Conifers (A. Farjon, 2001) as a guideline when making reference to the names of species of <em>Taxus</em>.</td>
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<td><strong>ZYGOPHYLLACEAE</strong></td>
<td><em>Guaiacum</em> spp.</td>
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Excerpt of Annex to Resolution Conf 12.11 (Rev. CoP18): Proposed changes to Standard nomenclature references for fauna*

*Strikethrough denotes a deletion, underline denotes an addition.

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<td>Cercopithecidae</td>
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<td>Pilocolobus termimnikii</td>
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<td>Pilocolobus waldroneae</td>
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| Cheirogaleidae | **Cheirogaleus shethi**
| Cheirogaleidae | **Microcebus ganzhorni**
Microcebus manitatra
| Cheirogaleidae | **Microcebus gerpi**
| Cheirogaleidae | **Microcebus marohita**
Microcebus tanosi
| Galagidae | **Paragalago cocos**
Paragalago orinus
Paragalago rondoensis
Paragalago zanzibaricus
| Galagidae | **Galagoides kumbirensis**
| Hominidae | **Pongo tapanuliensis**
| Hylobatidae | **Hylobates abbotti**
**Hylobates funereus**
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<td><em>Pithecia rylandsi</em></td>
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<td><em>Pithecia vanzolinii</em></td>
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**ORDER- AND FAMILY-LEVEL NAMES FOR BIRDS**


**ALL BIRD SPECIES – WITH THE EXCEPTION OF THE TAXA MENTIONED BELOW**


**HUMMINGBIRD SPECIES COMPLEX: A BIOGEOGRAPHIC PERSPECTIVE**


**HBW AND BIRDLIFE INTERNATIONAL ILLUSTRATED CHECKLIST OF THE BIRDS OF THE WORLD. VOLUME 1: NON-PASSERINES.**


**MANDATORY CHANGES TO THE SCIENTIFIC NAMES OF THREE NEOTROPICAL BIRDS.**


**A NEW SPECIES OF ERIOCNEMIS (TROCHILIDAE) FROM SOUTHWEST COLOMBIA.**


**A STRIKING, CRITICALLY ENDANGERED, NEW SPECIES OF HILLSTAR (TROCHILIDAE: OREOTROCHILUS) FROM THE SOUTHWESTERN ANDES OF ECUADOR.**


**HYBRID, SUBSPECIES OR SPECIES? THE VALIDITY AND TAXONOMIC STATUS OF PHAETHORNIS LONGUEMAREUS AETHOPYGA ZIMMER, 1950 (TROCHILIDAE).**

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<td>Psephotellus varius</td>
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## REPTILIA

CoP19 Doc. 84.1 Annex 3 – p. 11
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<td>Mokopirirakau spp.</td>
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| Uroplatus fiera | Ratsoavina, F. M., Ranjanaharinsoa, F. A., Flah, F., Raselimanana, A. P., Miralles, A. & Ven
| Uroplatus fotisivava |                     |
| Uroplatus kelirambo |                     |
| **Gekkonidae**  |                     |
| **Iguanidae spp.** except for the taxa mentioned below |                     |
| Cyclura lewisi |                     |
| Conolophus marthae |                     |
| **Gekkonidae**  |                     |
| **Iguanidae**   |                     |
| Iguanidae spp. |                     |
| **Iguanidae**   |                     |
## FAUNA

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*Tupinambis cuzcoensis*  
| Varanidae | Varanus bangonorum  
*Varanus dalubhasa*  
| Varanidae | *Varanus douarrha*  
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<td>Viperidae</td>
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<td><em>Cyclemys enigmatica, Cyclemys fusca, Cyclemys gemeli, Cyclemys oldhamii</em></td>
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| Geoemydidae                    | Malayemys khoratensis  
| Geoemydidae                    | Mauremys reevesii  
| Testudinidae                    | Centrochelys sulcata  
| Testudinidae                    | Chelonia carbonarius Chelonia denticulatus Chelonia niger  
| Testudinidae                    | Chersobius spp.  
| Testudinidae                    | Gopherus evgoodei Gopherus morafkai  
| Testudinidae                    | Gopherus morafkai  
| Testudinidae                    | Homopus solus  
| Testudinidae                    | Kinixys nogueyi Kinixys zombensis  
| Trionychidae                    | Lissemys ceylonensis  
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<td>Mobula birostris</td>
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<td>Mobula hypostoma (incl. M. rochebrunii)</td>
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### ARACHNIDA

#### ARANEAE

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<td>Theraphosidae</td>
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| **Theraphosidae** | Sericopelma angustum  
Sericopelma embrithes |
| **SCORPIONES** | Pandinus spp. except for the taxa mentioned below |
| Scorpionidae | Sericopelma embrithes  
| | Pandinus camerounensis  
Pandinus roeseli |
| **INSECTA** | Colophon spp. except the taxa mentioned below |
| **COLEPTERA** | Colophon spp. |
| Lucanidae | Colophon deschodti, C. eastmani, C. nagaii, C. switai, C. struempheri |
| **LEPIDOPTERA** | Achillides spp. [only the species of the Philippines] |
| Papilionidae | Ornithoptera spp.  
Trogonoptera spp.  
Troisdes spp. |
| | Orithoptera spp.  
Trogonoptera spp.  
Troisdes spp. |
| **HIRUDINOIDEA** | Hirundo medicinalis  
Hirudo verbana |
| **BIVALVIA** | Tridacna lorenzi, T. mbalayunua (incl. T. tevoroa), T. noae (incl. T. ningaloo), T. squamosina |

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## FAUNA

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<td><strong>CEPHALOPODA</strong></td>
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<td>Present situation (after CITES CoP18)</td>
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CoP 19 Doc. 84.1 Annex 4a

None: Part of Dalbergia spp.

Add Dalbergia antirananoe (Phillipson, Crameri & N.Wilding (2021))

Make Dalbergia atrypoguinae Ducke the accepted name for Dalbergia foliosa (Benth.) A.M.Carvalho

Move Dalbergia balansae Prain synonym of Dalbergia azzamica A.M.Carvalho

Move Dalbergia barrensstd Pierre to synonymy of Dalbergia olivieri Gamble ex Prain

Move Dalbergia beddomei Thoth. to synonymy of Dalbergia rubiginosa Radd.

Add Dalbergia bemarinensis Phillipson & N.Wilding

Add Dalbergia benthamiana (Kunze) E.W Williams, Goverza & Vatanparast

Move Dalbergia biginnae Berhaut to synonymy of Dalbergia mayumbensis Baker f.
<table>
<thead>
<tr>
<th>Family</th>
<th>Genus</th>
<th>Species Name</th>
<th>Species lumping status</th>
<th>Species lumping details</th>
<th>CoP 19 Doc. 84.1 Annex 4</th>
</tr>
</thead>
</table>
| LEGUMINOSAE     | Dalbergia         | spp.               | **Dalbergia boniana** Gagnep. | Species lumping: now a synonym of *Dalbergia tonkinensis* Prain  
                    None: Part of *Dalbergia* spp. Move *Dalbergia boniana* Gagnep. to synonymy of *Dalbergia* tonkinensis Prain | CoP 19 Doc. 84.1 Annex 4 |
| LEGUMINOSAE     | Dalbergia         | spp.               | **Dalbergia burmanica** Prain | Species lumping: now a synonym of *Dalbergia velutina* Benth.  
                    Move *Dalbergia burmanica* Prain to synonymy of *Dalbergia velutina* Benth. | CoP 19 Doc. 84.1 Annex 4 |
| LEGUMINOSAE     | Dalbergia         | spp.               | **Dalbergia cambodiana** Pierre | Species lumping: now a synonym of *Dalbergia echinocarpa* Pierre  
                    Move *Dalbergia cambodiana* Pierre to synonymy of *Dalbergia echinocarpa* Pierre | CoP 19 Doc. 84.1 Annex 4 |
| LEGUMINOSAE     | Dalbergia         | spp.               | **Dalbergia canescens** (Elmer) Merr. | Species lumping: now a synonym of *Dalbergia velutina* Benth.  
                    Move *Dalbergia canescens* (Elmer) Merr. to synonymy of *Dalbergia velutina* Benth. | CoP 19 Doc. 84.1 Annex 4 |
| LEGUMINOSAE     | Dalbergia         | spp.               | **Dalbergia mollis** Bossui & Rabevohitra | Species lumping: now a synonym of *Dalbergia echinocarpa* R.Vig. from the synonym of *Dalbergia mollis* Bossui & Rabevohitra and make it an accepted name  
                    Remove *Dalbergia chermezonii* R.Vig. from the synonym of *Dalbergia mollis* Bossui & Rabevohitra and make it an accepted name | CoP 19 Doc. 84.1 Annex 4 |
| LEGUMINOSAE     | Dalbergia         | spp.               | **Dalbergia congesta** Baker f. | Species lumping: now a synonym of *Dalbergia japonica* G.Don  
                    Move *Dalbergia congesta* Baker f. to synonymy of *Dalbergia japonica* G.Don | CoP 19 Doc. 84.1 Annex 4 |
| LEGUMINOSAE     | Dalbergia         | spp.               | **Dalbergia cucullata** Pittier | Species lumping: now a synonym of *Apuleia leucocarpa* (Voegel) J.F. Madr.  
                    None, not CITES listed Remove from database | CoP 19 Doc. 84.1 Annex 4 |
### LEGUMINOSAE

#### Dalbergia spp. II

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<th>Name status change: now a synonym of Dalbergia retusa var. cuscusatilica (Standl.) Raddi</th>
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**Note:** Move Dalbergia cuscusatilica (Standl.) Standl. to synonymy of Dalbergia retusa var. cuscusatilica (Standl.) Raddi

#### Dalbergia spp. Move Dalbergia densicoma Baill. to synonymy of Dalbergia pervillei Vatke.

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<th>Species split: Dalbergia densicoma Baill. is now considered a valid species</th>
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</table>

**Note:** Move Dalbergia densicoma Baill. from the synonym of Dalbergia pervillei Vatke. and make it an accepted name

#### Dalbergia spp. Move Dalbergia errans Craib to synonymy of Dalbergia lanceolatil.Craib

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</thead>
</table>

**Note:** Move Dalbergia errans Craib to synonymy of Dalbergia lanceolatil.Craib

#### Dalbergia spp. Move Dalbergia falcata Prain to synonymy of Dalbergia kunstleri Prain

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<th>Species lumping: now a synonym of Dalbergia kunstleri Prain</th>
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</table>

**Note:** Move Dalbergia falcata Prain to synonymy of Dalbergia kunstleri Prain

#### Dalbergia spp. Move Dalbergia stipulacea Roeh. to synonymy of Dalbergia ferruginea Roeh.

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**Note:** Move Dalbergia ferruginea Roeh. from the synonym of Dalbergia stipulacea Roeh. and make it an accepted name

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<td>LEGUMINOSAE</td>
<td>Dalbergia spp.</td>
<td>Species lumping: now a synonym of Dalbergia cana Graham ex Kurz</td>
<td>Name: Part of Dalbergia spp.</td>
<td>Move Dalbergia kerrii Craib to synonymy of Dalbergia cana Graham ex Kurz</td>
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<td>Dalbergia spp.</td>
<td>Species lumping: now a synonym of Dalbergia rufa G.Don</td>
<td>Name: Part of Dalbergia spp.</td>
<td>Move Dalbergia kisantuensis De Wild. &amp; T.Durand to synonymy of Dalbergia rufa G.Don</td>
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Name: Part of Dalbergia spp. | Move Dalbergia succirubra Gagnep. & Craib to synonymy of Dalbergia velutina var. succirubra (Gagnep. & Craib) Niyomdham
Name: Part of Dalbergia spp. |
Name: Part of Dalbergia spp. | Move Dalbergia succirubra Gagnep. & Craib to synonymy of Dalbergia velutina var. succirubra (Gagnep. & Craib) Niyomdham
Name: Part of Dalbergia spp. |
Name: Part of Dalbergia spp. | Move Dalbergia succirubra Gagnep. & Craib to synonymy of Dalbergia velutina var. succirubra (Gagnep. & Craib) Niyomdham
Name: Part of Dalbergia spp. |
Name: Part of Dalbergia spp. | Remove Dalbergia tabascoana Pittier from the synonym of Dalbergia globra (Mill.) Standl. and make it an accepted name
Name: Part of Dalbergia spp. |
Name: Part of Dalbergia spp. | Move Dalbergia travancorica Thoth. to synonymy of Dalbergia rubiginosa Roeb.
Name: Part of Dalbergia spp. |

Species split: Dalbergia scorpioides Baker is now considered a valid species

Species lumping: now a synonym of Dalbergia rubiginosa Roeb.
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Aloe LILIACEAE


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<th>Citation / potential nomenclature standard reference</th>
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<td>Effect on CITES IF adopted Changes to name in Appendices</td>
<td>Changes to CITES Checklist &amp; Species+</td>
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<tr>
<td>Mammalia: Primates:</td>
<td>Callicebus lucifer</td>
<td>Genus transfer, to Cheracebus lucifer (Thomas, 1914)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>Thomas, 1914</td>
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<tr>
<td>Mammalia: Primates:</td>
<td>Callicebus lugens</td>
<td>Genus transfer, to Cheracebus lugens (Humboldt, 1811)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>(Humboldt, 1811)</td>
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<tr>
<td>Mammalia: Primates:</td>
<td>Callicebus medemi</td>
<td>Genus transfer, to Cheracebus medemi (Hershkovitz, 1963)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>Hershkovitz, 1963</td>
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<td>Mammalia: Primates:</td>
<td>Callicebus miltoni</td>
<td>Genus transfer, to Plecturocebus miltoni (Dalponte, Silva &amp; Silva-Júnior, 2014)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>Dalponte, Silva &amp; Silva-Júnior, 2014</td>
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<td>Mammalia: Primates:</td>
<td>Callicebus modestus</td>
<td>Genus transfer, to Plecturocebus modestus (Lönberg, 1939)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>Lönberg, 1939</td>
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<td>Mammalia: Primates:</td>
<td>Callicebus oenanthe</td>
<td>Genus transfer, to Plecturocebus oenanthe (Thomas, 1924)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>Thomas, 1924</td>
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<td>Mammalia: Primates:</td>
<td>Callicebus olliae</td>
<td>Genus transfer, to Plecturocebus olliae (Lönberg, 1939)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>Lönberg, 1939</td>
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<td>Mammalia: Primates:</td>
<td>Callicebus ornatus</td>
<td>Genus transfer, to Plecturocebus ornatus (Gray, 1866)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>(Gray, 1866)</td>
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<td>Mammalia: Primates:</td>
<td>Callicebus pallescens</td>
<td>Genus transfer, to Plecturocebus pallescens (Thomas, 1907)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>Thomas, 1907</td>
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<td>Mammalia: Primates:</td>
<td>Callicebus purinus</td>
<td>Genus transfer, to Cheracebus purinus (Thomas, 1927)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>Thomas, 1927</td>
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<td>Mammalia: Primates:</td>
<td>Callicebus regulus</td>
<td>Genus transfer, to Cheracebus regulus (Thomas, 1927)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>Thomas, 1927</td>
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<tr>
<td>Mammalia: Primates:</td>
<td>Callicebus torquatus</td>
<td>Genus transfer, to Cheracebus torquatus (Hoffmannsegg, 1807)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>(Hoffmannsegg, 1807)</td>
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<tr>
<td>Pitheciidae</td>
<td>N/A</td>
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<td>Mammalia: Primates:</td>
<td>Callicebus vieirai</td>
<td>Genus transfer, to Plecturocebus vieirai (Gualda-Barros, Nascimento &amp; Amaral, 2012)</td>
<td>Byrne et al. (2016)</td>
<td>None: part of PRIMATES spp.</td>
<td>Change name, list old name as synonym</td>
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<tr>
<td>Pitheciidae</td>
<td>Gualda-Barros, Nascimento &amp; Amaral, 2012</td>
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<td>Proposed change in literature</td>
<td>Citation / potential nomenclature standard reference</td>
<td>Effect on CITES IF adopted</td>
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<td><strong>Mammalia: Primates:</strong> Tarsiidae</td>
<td>PRIMATES spp.</td>
<td>II N/A New species, based on morphological, genetic and vocal data: <em>Tarsius supriatnai</em></td>
<td>Shekelle et al. (2017)</td>
<td>None: part of PRIMATES spp. Add <em>Tarsius supriatnai</em> Shekelle, Groves, Maryanto &amp; Mittermeier, 2017</td>
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<tr>
<td><strong>Aves:</strong> APODIFORMES: Trochilidae</td>
<td>Trochilidae spp.</td>
<td>II Basilinna xantusii (Lawrence, 1861) Genus change, to Hylocharis xantusii (Lawrence, 1861)</td>
<td>Dickinson &amp; Remsen (2013)</td>
<td>None (part of Trochilidae spp) update as applicable</td>
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<tr>
<td>Taxonomic placement</td>
<td>Name in Appendices</td>
<td>Proposed change in literature</td>
<td>Description of change</td>
<td>Citation / potential nomenclature standard reference</td>
<td>Effect on CITES IF adopted</td>
<td>Changes to name in Appendices</td>
<td>Changes to CITES Checklist &amp; Species+</td>
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<tr>
<td>Aves: APODIFORMES: Trochilidae</td>
<td>Trochilidae spp.</td>
<td>II</td>
<td>Campylopterus curvipennis (Deppe, 1830)</td>
<td>Species split, recognising Campylopterus excellens (Wetmore, 1941) as valid</td>
<td>Dickinson &amp; Remsen (2013)</td>
<td>none (part of Trochilidae spp)</td>
<td>update as applicable</td>
</tr>
<tr>
<td>Aves: APODIFORMES: Trochilidae</td>
<td>Trochilidae spp.</td>
<td>II</td>
<td>Campylopterus cuvieri (DeLattre &amp; Bourcier, 1846)</td>
<td>Genus change, to Phaeochroa cuvieri (DeLattre &amp; Bourcier, 1846)</td>
<td>Dickinson &amp; Remsen (2013)</td>
<td>none (part of Trochilidae spp)</td>
<td>update as applicable</td>
</tr>
<tr>
<td>Aves: APODIFORMES: Trochilidae</td>
<td>Trochilidae spp.</td>
<td>II</td>
<td>Stellula calliope (Gould, 1847)</td>
<td>Genus change, to Selasphorus calliope (Gould, 1847)</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of Trochilidae spp)</td>
<td>update as applicable</td>
</tr>
<tr>
<td>Aves: CICONIIFORMES: Phoenicopteridae</td>
<td>Phoenicopteridae spp.</td>
<td>II</td>
<td>Phoenicopterus ruber Linnaeus, 1758</td>
<td>Species split, Phoenicopterus roseus Pallas, 1811 considered valid.</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of Phoenicopteridae spp)</td>
<td>add P. roseus as valid, remove from synonymy of P. ruber</td>
</tr>
<tr>
<td>Aves: FALCONIFORMES: Accipitridae</td>
<td>FALCONIFORMES spp.</td>
<td>II</td>
<td>Accipter novaehollandiae (Gmelin, 1788)</td>
<td>Species split, Accipiter hiogaster (S. Müller, 1841) considered valid.</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of FALCONIFORMES spp.)</td>
<td>change name, update synonymy</td>
</tr>
<tr>
<td>Aves: FALCONIFORMES: Accipitridae</td>
<td>FALCONIFORMES spp.</td>
<td>II</td>
<td>Buteo plagiatus (Schlegel, 1862)</td>
<td>Species split, Buteo nitidus (Latham, 1790) considered valid.</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of FALCONIFORMES spp.)</td>
<td>change name, update synonymy</td>
</tr>
<tr>
<td>Aves: FALCONIFORMES: Accipitridae</td>
<td>FALCONIFORMES spp.</td>
<td>II</td>
<td>Buteo albicaudatus Vieillot, 1816</td>
<td>Genus change, to Geranoaetus albicaudatus (Vieillot, 1816)</td>
<td>Dickinson &amp; Remsen (2013)</td>
<td>none (part of FALCONIFORMES spp.)</td>
<td>change name, update synonymy</td>
</tr>
<tr>
<td>Aves: FALCONIFORMES: Accipitridae</td>
<td>FALCONIFORMES spp.</td>
<td>II</td>
<td>Buteo magnirostris (Gmelin, 1788)</td>
<td>Genus change, to Rupornis magnirostris (J. F. Gmelin, 1788).</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of FALCONIFORMES spp.)</td>
<td>change name, update synonymy</td>
</tr>
<tr>
<td>Aves: FALCONIFORMES: Accipitridae</td>
<td>FALCONIFORMES spp.</td>
<td>II</td>
<td>Buteogallus anthracinus (Deppe, 1830)</td>
<td>Species split, Buteogallus gundlachii (Cabanis, 1859) considered valid.</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of FALCONIFORMES spp.)</td>
<td>change name, update synonymy</td>
</tr>
<tr>
<td>Taxonomic placement</td>
<td>Name in Appendices</td>
<td>Present situation (after CITES CoP18 App. Checklist &amp; Species)</td>
<td>Proposed change in literature</td>
<td>Description of change</td>
<td>Citation / potential nomenclature standard reference</td>
<td>Effect on CITES IP adopted</td>
<td>Changes to name in Appendices</td>
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<tr>
<td>Aves: FALCONIFORMES: Accipitridae</td>
<td>Chondrohierax uncinatus wilsonii</td>
<td>I/II Chondrohierax uncinatus (Temminck, 1822)</td>
<td>Species split, Chondrohierax wilsonii (Cassin, 1847) considered valid</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>Appendix I: update name from Chondrohierax uncinatus wilsonii to Chondrohierax wilsonii</td>
<td>add name, update synonymy, list C. uncinatus as part of FALCONIFORMES spp. in Appendix II</td>
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<tr>
<td>Aves: FALCONIFORMES: Accipitridae</td>
<td>FALCONIFORMES spp.</td>
<td>II Circus cyaneus (Linnaeus, 1766)</td>
<td>Species split, Circus hudsonius (Linnaeus, 1766) considered valid.</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of FALCONIFORMES spp.)</td>
<td>change name, update synonymy</td>
<td></td>
</tr>
<tr>
<td>Aves: FALCONIFORMES: Accipitridae</td>
<td>FALCONIFORMES spp.</td>
<td>II Leptodon cayanensis (Latham, 1790)</td>
<td>Species split, Leptodon forbesi (Swann, 1922) considered valid.</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of FALCONIFORMES spp.)</td>
<td>change name, update synonymy</td>
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</tr>
<tr>
<td>Aves: FALCONIFORMES: Accipitridae</td>
<td>FALCONIFORMES spp.</td>
<td>II Leucopternis albicollis (Latham, 1790)</td>
<td>Genus change, to Pseudastur albicollis (Latham, 1790)</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of FALCONIFORMES spp.)</td>
<td>change name, update synonymy</td>
<td></td>
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<tr>
<td>Aves: GRIUIDIFORMES: Gruidae</td>
<td>Gruidae spp.</td>
<td>II Grus antigone (Linnaeus, 1758)</td>
<td>Genus change, to Antigone antigone (Linnaeus, 1758)</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of Gruidae spp.)</td>
<td>update name and synonymy</td>
<td></td>
</tr>
<tr>
<td>Aves: GRIUIDIFORMES: Gruidae</td>
<td>Gruidae spp.</td>
<td>II Grus leucogeranus leucogeranus (Pallas, 1773)</td>
<td>Genus change, to Leucogeranus leucogeranus (Pallas, 1773)</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of Gruidae spp.)</td>
<td>update name and synonymy</td>
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<tr>
<td>Aves: GRIUIDIFORMES: Gruidae</td>
<td>Gruidae spp.</td>
<td>II Grus rubicunda (Perry, 1810)</td>
<td>Genus change, to Antigone rubicunda (Perry, 1810)</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of Gruidae spp.)</td>
<td>update name and synonymy</td>
<td></td>
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<tr>
<td>Aves: GRIUIDIFORMES: Gruidae</td>
<td>Gruidae</td>
<td>I Grus vipio Pallas, 1811</td>
<td>Genus change, to Antigone vipio (Pallas, 1811)</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>Appendix I: update name</td>
<td>Update name and synonymy</td>
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<td>Taxonomic placement</td>
<td>Name in Appendices</td>
<td>Proposed change in literature</td>
<td>Description of change</td>
<td>Citation / potential nomenclature standard reference</td>
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<td>Aves: PSITTACIFORMES: Cacatuidae</td>
<td>PSITTACIFORMES spp.</td>
<td>II PSITTACIFORMES spp.</td>
<td>Calyptorhynchus baudini Lear, 1832</td>
<td>Genus change, to Zanda baudinii (Lear, 1832)</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of PSITTACIFORMES spp.)</td>
<td>update name and synonymy</td>
</tr>
<tr>
<td>Aves: PSITTACIFORMES: Psittacidae</td>
<td>PSITTACIFORMES spp.</td>
<td>II PSITTACIFORMES spp.</td>
<td>Aratinga nana (Vigors, 1830)</td>
<td>Genus change, to Eupsittula nana (Vigors, 1830)</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of PSITTACIFORMES spp.)</td>
<td>update name and synonymy</td>
</tr>
<tr>
<td>Aves: PSITTACIFORMES: Psittacidae</td>
<td>PSITTACIFORMES spp.</td>
<td>II PSITTACIFORMES spp.</td>
<td>Myiopsitta monachus (Boddaert, 1783)</td>
<td>Species split, Myiopsitta luchsi (Finsch, 1868) considered valid</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of PSITTACIFORMES spp.)</td>
<td>update name and synonymy</td>
</tr>
<tr>
<td>Aves: PSITTACIFORMES: Psittacidae</td>
<td>Pezoporus walliicus</td>
<td>I Pezoporus walliicus Wallace, 1862</td>
<td>Species split, Pezoporus flaviventris</td>
<td>Species split, Pezoporus flaviventris North, 1911 considered valid</td>
<td>Dickinson &amp; Remsen (2013)</td>
<td>Appendix I: add Pezoporus flaviventris</td>
<td>update name and synonymy</td>
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<tr>
<td>Taxonomic placement</td>
<td>Name in Appendices</td>
<td>Proposed change in literature</td>
<td>Description of change</td>
<td>Citation / potential nomenclature standard reference</td>
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<tr>
<td>Aves: PSITTACIFORMES: Psittacidae</td>
<td>PSITTACIFORMES spp.</td>
<td>II</td>
<td>Psittacula intermedia (Rothschild, 1895, 1820)</td>
<td>Considered a hybrid of Psittacula cyanocephala x P. himalayana, thus not nomenclaturally valid</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of PSITTACIFORMES spp.)</td>
<td>remove name, place in annotated synonymy of both parental species</td>
</tr>
<tr>
<td>Aves: STRIGIFORMES: Strigidae</td>
<td>STRIGIFORMES spp.</td>
<td>II</td>
<td>N/A</td>
<td>New species based on morphological and vocal data: Megascops gilesi Krabbe, 2017</td>
<td>Krabbe (2017)</td>
<td>none (part of STRIGIFORMES spp.)</td>
<td>update name and synonymy</td>
</tr>
<tr>
<td>Aves: STRIGIFORMES: Strigidae</td>
<td>STRIGIFORMES spp.</td>
<td>II</td>
<td>Otus barbarus (Sclater &amp; Salvin, 1868)</td>
<td>Genus change, to Megascops barbarus (Sclater &amp; Salvin, 1868).</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of STRIGIFORMES spp.)</td>
<td>update name and synonymy</td>
</tr>
<tr>
<td>Aves: STRIGIFORMES: Strigidae</td>
<td>STRIGIFORMES spp.</td>
<td>II</td>
<td>Otus flammeolus (Kaup, 1852)</td>
<td>Genus change, to Psiloscops flammeolus (Kaup, 1852).</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of STRIGIFORMES spp.)</td>
<td>update name and synonymy</td>
</tr>
<tr>
<td>Aves: STRIGIFORMES: Strigidae</td>
<td>STRIGIFORMES spp.</td>
<td>II</td>
<td>Otus guatemalae (Sharpe, 1875)</td>
<td>Genus change, to Megascops guatemalae (Sharpe, 1875).</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of STRIGIFORMES spp.)</td>
<td>update name and synonymy</td>
</tr>
<tr>
<td>Aves: STRIGIFORMES: Strigidae</td>
<td>STRIGIFORMES spp.</td>
<td>II</td>
<td>Otus kennicottii (Elliot, 1867)</td>
<td>Genus change, to Megascops kennicottii (Elliot, 1867).</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of STRIGIFORMES spp.)</td>
<td>update name and synonymy</td>
</tr>
<tr>
<td>Aves: STRIGIFORMES: Strigidae</td>
<td>STRIGIFORMES spp.</td>
<td>II</td>
<td>N/A</td>
<td>New species, based on morphological and genetic data: Strix hadorami Kirwan, Schweizer &amp; Copete, 2015</td>
<td>Kirwan et al. (2015)</td>
<td>none (part of STRIGIFORMES spp.)</td>
<td>update name and synonymy</td>
</tr>
<tr>
<td>Aves: STRIGIFORMES: Strigidae</td>
<td>STRIGIFORMES spp.</td>
<td>II</td>
<td>Strix virgata (Cassin, 1849)</td>
<td>Genus change, to Ciccaba virgata (Cassin, 1849)</td>
<td>del Hoyo &amp; Collar (2014)</td>
<td>none (part of STRIGIFORMES spp.)</td>
<td>update name and synonymy</td>
</tr>
<tr>
<td>Taxonomic placement</td>
<td>Name in Appendices</td>
<td>Proposed change in literature</td>
<td>Citation / potential nomenclature standard reference</td>
<td>Effect on CITES IF adopted</td>
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<tr>
<td>Reptilia: Sauria: Chamaeleonidae</td>
<td>Brookesia spp.</td>
<td>II Brookesia ambreensis</td>
<td>Synonymisation of B. ambreensis under Brookesia antakarana</td>
<td>None: part of Brookesia spp.</td>
<td>List B. ambreensis as synonym under B. antakarana</td>
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<tr>
<td>Taxonomic placement</td>
<td>Name in Appendices</td>
<td>Description of change</td>
<td>Citation / potential nomenclature standard reference</td>
<td>Effect on CITES IF adopted</td>
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<tr>
<td></td>
<td>Present situation (after CITES CoP18)</td>
<td>Description of change</td>
<td>Changes to name in Appendices</td>
<td>Changes to CITES Checklist &amp; Species+</td>
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</table>

CoP19 Doc.84.1 Annex 5 Fauna
<table>
<thead>
<tr>
<th>Taxonomic placement</th>
<th>Name in Appendices</th>
<th>Proposed change in literature</th>
<th>Citation / potential nomenclature standard reference</th>
<th>Effect on CITES if adopted</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reptilia: Serpentes: Boidae</strong></td>
<td>Boidae spp.</td>
<td>Genus split: Epicrates retains alvarezi, assisi, cenchria, crassus &amp; maurus; new genus Chilabothrus for species anguiller, chrysogaster, exsul, fordi, gracilis, granti, inornatus, monensis, schwartz, striatus, strigilatus and subflavus</td>
<td>Reynolds, R.G.; Matthew L. Niemiller; S. Blair Hedges; Alex Dornburg; Alberto R. Puente-Rolón; Liam J. Revell 2013. Molecular phylogeny and historical biogeography of West Indian boid snakes (Chilabothrus). Molecular Phylogenetics and Evolution</td>
<td>Update valid genus names of species anguiller, chrysogaster, exsul, fordi, gracilis, granti, inornatus, monensis, schwartz, striatus, strigilatus and subflavus, and list Epicrates name combination as a synonym</td>
</tr>
<tr>
<td>Taxonomic placement</td>
<td>Name in Appendices</td>
<td>Proposed change in literature</td>
<td>Citation / potential nomenclature standard reference</td>
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<td></td>
<td>Trimeresurus mangshanensis II Zhao 1990</td>
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<td></td>
<td>Testudinidae spp. II Gopherus morafkai Duender, 1906</td>
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<tr>
<td></td>
<td>Testudinidae spp.</td>
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<tr>
<td><strong>Reptilia: Testudines: Testudinidae</strong></td>
<td>Homopus signatus (Gmelin, 1789)</td>
<td>Genus transfer, to Chersobius signatus (Gmelin, 1789)</td>
<td>Hofmeyr &amp; Branch (2016)</td>
<td>Change valid name, list old name as synonym</td>
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<tr>
<td></td>
<td>Testudinidae spp.</td>
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<tr>
<td>Taxonomic placement</td>
<td>Present situation (after CITES CoP18)</td>
<td>Proposed change in literature</td>
<td>Effect on CITES IF adopted</td>
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<td></td>
<td>Name in Appendices</td>
<td>Description of change</td>
<td>Citation / potential nomenclature standard reference</td>
<td>Changes to name in Appendices</td>
</tr>
<tr>
<td><strong>Amphibia: Anura:</strong> Bufonidae</td>
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<tr>
<td></td>
<td>Amietophrynus superciliaris</td>
<td>Genus change, to Sclerophrys superciliaris (Boulenger, 1888)</td>
<td>Ohler &amp; Dubois (2016)</td>
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<tr>
<td><strong>Amphibia: Anura:</strong> Dendrobatidae</td>
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<td></td>
<td>Ameerega spp.</td>
<td>Genus change, to Paruwrobates erythromos (Vigle &amp; Miyata, 1980)</td>
<td>Grant et al. (2017)</td>
<td>Appendix II: Add Paruwrobates erythromos</td>
</tr>
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<tr>
<td><strong>Amphibia: Anura:</strong> Dendrobatidae</td>
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<tr>
<td></td>
<td>Ameerega spp.</td>
<td>Genus change, to Epipedobates maculatus (W. Peters, 1873)</td>
<td>Grant et al. (2017)</td>
<td>None: part of Epipedobates spp.</td>
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<tr>
<td><strong>Amphibia: Anura:</strong> Dendrobatidae</td>
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<td><strong>Amphibia: Anura:</strong> Dendrobatidae</td>
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<tr>
<td><strong>Amphibia: Anura:</strong></td>
<td><strong>Dendrobatidae</strong></td>
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<tr>
<td></td>
<td>Syngnathidae</td>
<td>Hippocampus spp.</td>
<td>II</td>
<td>N/A</td>
</tr>
<tr>
<td>Taxonomic placement</td>
<td>Name in Appendices</td>
<td>Proposed change in literature</td>
<td>Description of change</td>
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</tr>
<tr>
<td>Elasmobranchii: Myliobatiformes: Myliobatidae</td>
<td>Mobula spp.</td>
<td>II</td>
<td>Mobula rochebrunei (Vaillant, 1879); Mobula hypostoma (Bancroft 1831)</td>
<td>Species Mobula rochebrunei synonymized under Mobula hypostoma</td>
</tr>
<tr>
<td>Taxonomic placement</td>
<td>Name in Appendices</td>
<td>Proposed change in literature</td>
<td>Description of change</td>
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TENTATIVE BUDGET AND SOURCE OF FUNDING
FOR THE IMPLEMENTATION OF DRAFT RESOLUTIONS OR DECISIONS

According to Resolution Conf. 4.6 (Rev. CoP19) on Submission of draft resolutions, draft decisions and other documents for meetings of the Conference of the Parties, the Conference of the Parties decided that any draft resolutions or decisions submitted for consideration at a meeting of the Conference of the Parties that have budgetary and workload implications for the Secretariat or permanent committees must contain or be accompanied by a budget for the work involved and an indication of the source of funding. The Secretariat proposes the following tentative budget and source of funding.

Flora

Regarding the draft decisions on standard nomenclature for flora contained in Annex 1 to the document, the Secretariat has identified that the following draft decisions will have budgetary implications, as listed in the table below:

<table>
<thead>
<tr>
<th>Draft decision</th>
<th>Activity</th>
<th>Indicative costs (USD) (excludes Programme Support Costs)</th>
<th>Source of funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.A1 (Aloe spp.)</td>
<td>Develop an updated standard nomenclature reference</td>
<td>40,000</td>
<td>External funding</td>
</tr>
<tr>
<td>19.B1 (Pachypodium spp.)</td>
<td>Develop an updated standard nomenclature reference</td>
<td>40,000</td>
<td>External funding</td>
</tr>
<tr>
<td>19.C1 [Nomenclature of Diospyros spp. (populations of Madagascar)]</td>
<td>Develop a standard nomenclature reference</td>
<td>80,000</td>
<td>External funding</td>
</tr>
<tr>
<td>19.E1 [Nomenclature — Taxus spp.]</td>
<td>Develop a standard nomenclature reference</td>
<td>80,000</td>
<td>External funding</td>
</tr>
<tr>
<td><strong>Option 1</strong>: 18.307 (Rev. CoP19) [Production of a CITES Checklist for Dalbergia spp.]</td>
<td>Update the CITES Checklist of Dalbergia spp., taking into consideration paragraph D of the comments of the Secretariat to the document</td>
<td>50,000</td>
<td>External funding</td>
</tr>
<tr>
<td><strong>Option 2</strong>: Implementation of paragraph 3 of Resolution Conf. 12.11 (Rev. CoP19) to update the standard nomenclature reference for the genus Dalbergia.</td>
<td></td>
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</tbody>
</table>

Regarding the remaining draft decisions (and revisions thereof) contained in the Annex 1 to the present document [including those on Nomenclature (Cactaceae Checklist and its Supplement and Nomenclature of Appendix-II listed orchids)], there will be workload implications for the Plants Committee, the Parties and the Secretariat, but it is expected that these can be delivered using existing resources.

Fauna

Regarding the draft decisions on standard nomenclature for fauna contained in Annex 1 to the document, there will be considerable workload implications for the Animals Committee, the Parties and the Secretariat. The following costs apply:

<table>
<thead>
<tr>
<th>Draft decision</th>
<th>Activity</th>
<th>Indicative costs (USD)</th>
<th>Source of funding</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>19. AA (see para M of Secretariat's comments)</td>
<td>Travel expenses to attend meetings associated with the development of a global standard taxonomy</td>
<td>10,000</td>
<td>External funding</td>
</tr>
<tr>
<td>All</td>
<td><em>Ad hoc</em> support from UNEP-WCMC on nomenclatural issues arising from CoP decisions</td>
<td>10-15,000</td>
<td>External funding</td>
</tr>
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</table>