

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



Twenty-fifth meeting of the Plants Committee
Online, 2-4, 21 and 23 June 2021

REPORT OF THE NOMENCLATURE SPECIALIST

Membership (as decided by the Committee)

Members: specialist on botanical nomenclature (Ms. Klopper) (Chair), representative for Africa (Mr. Mahamane), representative for Central and South America and the Caribbean (Ms. Núñez Neyra);

Parties: Austria, Cambodia, China, Democratic Republic of the Congo, Madagascar, Mexico, Peru, Republic of Korea, Thailand, United Kingdom of Great Britain and Northern Ireland, and United States of America; and

Observers: United Nations Environment Programme-World Conservation Monitoring Centre; Humane Society International, and Royal Botanic Gardens Edinburgh.

Mandate

The in-session working group shall:

- a) consider document PC25 Doc. 31 and its addendum, and documents PC25 Doc. 32.1 and 32.2;
- b) concerning *Aloe* and *Pachypodium*, consider the progress and recommendations reported in paragraphs 5 and 6 of the addendum of document PC25 Doc. 31, and the pertinence of drafting nomenclature-related draft decisions to further this work for consideration of the 19th meeting of the Conference of the Parties (CoP19);
- c) concerning Cactaceae, consider the progress and recommendations reported in paragraph 7 and the Annex to the addendum of document PC25 Doc. 31, and the pertinence of revising and extending the mandate of Decisions 18.304 to 18.306 on Nomenclature (Cactaceae Checklist and its Supplement) for consideration at CoP19;
- d) concerning *Diospyros* spp. (populations of Madagascar), consider the progress and recommendations reported in paragraph 8 of the addendum of document PC25 Doc. 31, and the pertinence of drafting nomenclature-related draft decisions for consideration at CoP19;
- e) concerning Orchidaceae, consider the progress reported in paragraph 9 of the present addendum, together with the update and checklists contained in documents PC25 Doc. 32.1 and PC25 Doc. 32.2, and the pertinence of drafting nomenclature-related draft decisions and recommendations for consideration of CoP19;
- f) concerning *Taxus* spp., consider the progress and recommendations reported in paragraph 10 of the the addendum of document PC25 Doc. 31, and develop recommendations to update the standard nomenclature references in Resolution Conf. 12.11 (Rev. CoP18) on Standard nomenclature for consideration at CoP19;

- g) concerning *Guibourtia* spp., consider the progress and recommendations reported in paragraph 11 of the addendum of document PC25 Doc. 31, and develop recommendations to update standard nomenclature references in Resolution Conf. 12.11 (Rev. CoP18) for consideration at CoP19; and,
- h) concerning new priorities in matters related to nomenclature, consider paragraphs 12 to 15 of the addendum of document PC25 Doc. 31, and develop recommendations for consideration at CoP19, including drafting nomenclature-related draft decisions where appropriate.

Recommendations

The working group recommends that the Plants Committee agree to the following:

- a) concerning the genus *Aloe*, submit for the consideration of the Conference of the Parties, at its 19th meeting (CoP19), the inclusion of the supplement in the Annex to this report, 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*, remind the Parties that all *Lomatophyllum* names are scientific synonyms of CITES-listed *Aloe* species as reflected in the Checklist of CITES species and are thus regulated under the Convention, and recommend the preparation of an update of the *Aloe* standard nomenclature references separate to those of *Pachypodium* spp., based on the way forward outlined in paragraph 5 of the Addendum to document PC25 Doc. 31, through the proposal of the following draft Decisions:

Directed to the Secretariat

- 19.A1 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. XX; and
 - b) report on progress or results of this work to the Plants Committee.

Directed to the Plants Committee

- 19.A2 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.
- b) concerning the genus *Pachypodium*, submit for the consideration of the Conference of the Parties, at CoP19, a recommendation to update the standard nomenclature references in Resolution Conf. 12.11 (Rev. CoP18), based on the way forward outlined in paragraph 6 of the Addendum to document PC25 Doc. 31, through the proposal of the following draft Decisions:

Directed to the Secretariat

- 19.B1 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.

Directed to the Plants Committee

- 19.B2 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.
- c) concerning Cactaceae and the preparation of a fourth edition of the *CITES Cactaceae Checklist (CCC)*:
- i) the preparation of a fourth edition of the *CITES Cactaceae Checklist (CCC)* should be a low priority;
 - ii) to propose to the Conference of the Parties, at CoP19, the extension of Decisions 18.304 to 18.306 with the reference to CoP19 in Decision 18.306 changed to CoP20; and
 - iii) to note that concerning the Appendix-I synonymy of *Aztekium ritteri* and *A. valdezii* 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 CoP19. Therefore, the nomenclature specialist will include as part of the proposed nomenclatural changes to be put before the Parties at CoP19, a proposal to reinstate *Aztekium valdezii* as a separate species and restore it to Appendix II.
- d) concerning *Diospyros* spp. (populations of Madagascar), to submit for consideration of the Conference of the Parties at CoP19 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 and a recommendation to update the standard nomenclature reference in Resolution Conf. 12.11 (Rev. CoP18), through the proposal of the following draft Decisions:

Directed to the Secretariat

- 19.D1 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.

Directed to the Plants Committee

- 19.D2 The Plants Committee shall:
- a) consider progress and results reported by the Secretariat as per Decision 19.D1; and
 - b) make recommendations to the Conference of the Parties, as appropriate.
- e) concerning Orchidaceae, in collaboration with the United Kingdom of Great Britain and Northern Ireland and the Republic of Korea, to submit for consideration of the Conference of the Parties at CoP19 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) and, to propose the following draft decisions to assess its implementation (if adopted) and continue the work to update the standard nomenclature references for Appendix-II orchids:

Directed to the Secretariat

19.E1 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.

Directed to the Plants Committee

19.E2 The Plants Committee shall review any report from the Secretariat related to the implementation of Decision 19.E1 and, as appropriate, make recommendations to the Conference of the Parties.

- f) concerning *Taxus* spp., to retain the standard nomenclature references as currently reflected in Resolution Conf. 12.11 (Rev. CoP18), and propose that the Conference of the Parties at CoP19 adopt the following decisions for updating the standard nomenclatural reference:

Directed to the Secretariat

19.F1 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.

Directed to the Plants Committee

19.F2 The Plants Committee shall:

- a) consider progress and results reported by the Secretariat as per Decision 19.F1; and
 - b) make recommendations to the Conference of the Parties, as appropriate.
- g) concerning *Guibourtia* spp., to recommend to the Conference of the Parties at CoP19 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.

- h) 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.

SUPPLEMENT OF ALOE SPP. NAMES AND SYNONYMS

Compiled by Dr Ronell R Klopper, with input from the PC25 Nomenclature Working Group, 10 June 2021
PC Nomenclature Specialist / South African National Plant Checklist Coordinator

Pending the planned update of the CITES aloe checklist (see PC25 Doc. 31, paragraph 10a), and following the additional recommendation that document PC24 Doc. 27, Annex 2 be used as a basis for a document to submit for consideration to CoP19 in the interim (see PC25 Doc. 31 Add., paragraph 5), an analysis of aloe names on the online Checklist of CITES Species and SPECIES+ was conducted and compared to recent scientific publications on a new generic classification of the aloes (Grace *et al.* 2013, Manning *et al.* 2014, Smith & Molteno 2019). The scientific names from these publications are now considered to be widely accepted among the scientific community and end-users for specimens of CITES-listed *Aloe* species found in international trade. The results of this analysis are presented here.

The document PC24 Doc. 27, Annex 2 provided a provisional list of names of new genera that had been split off from *Aloe* L. Further amendments have since been made to the generic classification of the aloes. New aloe genera currently recognised are *Aloestrela* Molteno & Gideon F.Sm., *Aloiampelos* Klopper & Gideon F.Sm. (scrambling aloes), *Aloidendron* (A.Berger) Klopper & Gideon F.Sm. (tree aloes), *Aristaloe* Boatwr. & J.C.Manning, *Gonialoe* (Baker) Boatwr. & J.C.Manning (variegated aloes), and *Kumara* Medik. (fan aloes). These names, as scientific synonyms, do not alter the scope of the original genus level listing. It is proposed to include these names as synonyms in the online Checklist of CITES Species and SPECIES+, noting that some of these names were already included in SPECIES+ as an interim measure at or before Cop18 (ref. CoP18 Doc. 99; 2019, South Africa). A revised version of the names included in Annex 2 of document PC24 Doc. 27 is provided in Section 1 below, to show which names are in the online Checklist of CITES Species, as well as SPECIES+, and which are proposed for adoption by the Parties to ensure that the accepted current names in the new genera can be linked to the relevant name in the CITES Checklist.

Furthermore, several new species of aloe were described since the publication of the current CITES Checklist for aloes and its supplement (Newton 2001, Lüthy 2007). These new names are also not incorporated into the online Checklist of CITES Species or the SPECIES+ database. This causes confusion and uncertainty amongst end-users interrogating these data sources for CITES purposes. Section 2 of this document lists the names of new species that should be incorporated into the online Checklist of CITES Species and SPECIES+. Only names at species level that are currently accepted have been included. None of these will alter the original intent of the listing of all *Aloe* spp. in CITES Appendix II.

Certain taxonomic revisions proposed by Grace *et al.* (2013), Klopper *et al.* (2013), and Manning *et al.* (2014) are not being proposed for inclusion in the CITES Checklist, because those would be outside the scope of the original listing. This pertains specifically to the four species in the genus *Chortolirion* A.Berger that was transferred to the genus *Aloe*, and now treated in *Aloe* section *Chortolirion* as *Aloe welwitschia* Klopper & Gideon F.Sm., *Aloe jeppeae* Klopper & Gideon F.Sm., *Aloe subspicata* (Baker) Boatwr. & J.C.Manning, and *Aloe bergeriana* (Dinter) Boatwr. & J.C.Manning. These species are not within the scope of the original intent of the CITES listing to include all *Aloe* spp. in Appendix II. Furthermore, none of these species are traded in great numbers and a proposal to list them on Appendix II is not currently recommended. At present, *Aloe bergeriana* and *Aloe tenuifolia* are listed as synonyms under *Aloe* spp. on the online Checklist of CITES Species; these two names should be removed (see Section 3 below). An amendment of the text accompanying the listing of *Aloe* spp. in Appendix II might be required to specify that these taxa are not included in the CITES listing.

What is recommended here is an interim measure to make these names available to end-users while the proposed new standard reference for the aloes is being compiled. All these names will be included in the updated checklist for aloes. These lists will be made available to UNEP-WCMC in spreadsheet format to facilitate incorporation into Checklist of CITES Species.

Section 1: Names in new genera

	Taxon	Already on SPECIES+	Treatment in online Checklist of CITES Species (CCS) and SPECIES+ / Action required	CITES App.
	<i>Aloiampelos</i>			
1	<i>Aloiampelos ciliaris</i> (Haw.) Klopper & Gideon F.Sm.	Yes	Synonym of <i>Aloe ciliaris</i> Haw.	II

	Taxon	Already on SPECIES+	Treatment in online Checklist of CITES Species (CCS) and SPECIES+ / Action required	CITES App.
2	<i>Aloiampelos ciliaris</i> var. <i>redacta</i> (S.Carter) Klopper & Gideon F.Sm.	Yes	Synonym of <i>Aloe ciliaris</i> Haw.	II
3	<i>Aloiampelos ciliaris</i> var. <i>tidmarshii</i> (Schönland) Klopper & Gideon F.Sm.	Yes	Synonym of <i>Aloe ciliaris</i> Haw.	II
4	<i>Aloiampelos commixta</i> (A.Berger) Klopper & Gideon F.Sm.	Yes	Synonym of <i>Aloe commixta</i> A.Berger	II
5	<i>Aloiampelos decumbens</i> (Reynolds) Klopper & Gideon F.Sm.	Yes, but wrong	Synonym of <i>Aloe gracilis</i> Haw. <u>Change to synonym of <i>Aloe decumbens</i> (Reynolds) van Jaarsv.</u> (see Section 2 nr 34)	II
6	<i>Aloiampelos gracilis</i> (Haw.) Klopper & Gideon F.Sm.	Yes	Synonym of <i>Aloe gracilis</i> Haw.	II
7	<i>Aloiampelos juddii</i> (Van Jaarsv.) Klopper & Gideon F.Sm.	No	Synonym of <i>Aloe</i> spp. on CCS <u>Add as synonym of <i>Aloe juddii</i> van Jaarsv.</u> (see also Section 2 nr 61)	II
8	<i>Aloiampelos striatula</i> (Haw.) Klopper & Gideon F.Sm.	Yes	Synonym of <i>Aloe striatula</i> Haw.	II
9	<i>Aloiampelos striatula</i> var. <i>caesia</i> (Reynolds) Klopper & Gideon F.Sm.	Yes	Synonym of <i>Aloe striatula</i> Haw.	II
10	<i>Aloiampelos tenuior</i> (Haw.) Klopper & Gideon F.Sm.	Yes	Synonym of <i>Aloe tenuior</i> Haw.	II
Aloidendron				
11	<i>Aloidendron barberae</i> (Dyer) Klopper & Gideon F. Sm.	Yes	Synonym of <i>Aloe barberae</i> Dyer	II
12	<i>Aloidendron dichotomum</i> (Masson) Klopper & Gideon F. Sm.	Yes	Synonym of <i>Aloe dichotoma</i> Masson	II
13	<i>Aloidendron eminens</i> (Reynolds & P.R.O.Bally) Klopper & Gideon F.Sm.	Yes	Synonym of <i>Aloe eminens</i> Reynolds & P.R.O.Bally	II
14	<i>Aloidendron pillansii</i> (L.Guthrie) Klopper & Gideon F.Sm.	Yes	Synonym of <i>Aloe pillansii</i> L.Guthrie	I
15	<i>Aloidendron ramosissimum</i> (Pillans) Klopper & Gideon F.Sm.	Yes	Synonym of <i>Aloe ramosissima</i> Pillans	II
16	<i>Aloidendron tongaense</i> (Van Jaarsv.) Klopper & Gideon F.Sm.	No	Synonym of <i>Aloe</i> spp. on CCS <u>Add as synonym of <i>Aloe tongaensis</i> van Jaarsv.</u> (see also Section 2 nr 117)	II
Aloestrela				
17	<i>Aloestrela suzannae</i> (Decary) Molteno & Gideon F.Sm.	No	<u>Add as synonym of <i>Aloe suzannae</i> Decary</u>	I
Aristaloe				
18	<i>Aristaloe aristata</i> (Haw.) Boatwr. & J.C.Manning	No	<u>Add as synonym of <i>Aloe aristata</i> Haw.</u>	II
Gonialoe				
19	<i>Gonialoe dinteri</i> (A.Berger) Boatwr. & J.C.Manning	No	<u>Add as synonym of <i>Aloe dinteri</i> A.Berger</u>	II
20	<i>Gonialoe sladeniana</i> Pole-Evans) Boatwr. & J.C.Manning	No	<u>Add as synonym of <i>Aloe sladeniana</i> Pole-Evans</u>	II
21	<i>Gonialoe variegata</i> (L.) Boatwr. & J.C.Manning	No	<u>Add as synonym of <i>Aloe variegata</i> L.</u>	II
Kumara				
22	<i>Kumara plicatilis</i> (L.) G.D.Rowley	Yes	Synonym of <i>Aloe plicatilis</i> (L.) Mill.	II

	Taxon	Already on SPECIES+	Treatment in online Checklist of CITES Species (CCS) and SPECIES+ / Action required	CITES App.
23	<i>Kumara haemanthifolia</i> (Marloth & A.Berger) Boatwr. & J.C.Manning	No	Add as synonym of <i>Aloe haemanthifolia</i> Marloth & A.Berger	II

Section 2: New aloes described after 2007 to be added to the online Checklist of CITES Species and SPECIES+

* Name included as synonym of the genus listing of *Aloe* on the online Checklist of CITES Species

	Species	Distribution	Reference	CITES App.
1	<i>Aloe aaata</i> T.A.McCoy & Lavranos	Saudi Arabia	McCoy, T.A. & Lavranos, J.J. 2014. Two new species of <i>Aloe</i> from the Kingdom of Saudi Arabia. <i>Cact. Succ. J.</i> (Los Angeles) 86(6): 258–263.	II
2	<i>Aloe alaotrensis</i> J.-P.Castillon	Madagascar	Castillon, J.-P. 2017. Deux nouvelles espèces d' <i>Aloe</i> L. (Xanthorrhoeaceae, Asphodelaceae), section <i>Lomatophyllum</i> Rowley, de Madagascar. <i>Adansonia</i> 39(1): 7–13.	II
3*	<i>Aloe albostriata</i> T.A.McCoy, Rakouth & Lavranos	Madagascar	McCoy, T.A., Rakouth, B. & Lavranos, J.J. 2008. Zwei neue Aloen aus Madagaskar: <i>Aloe albostriata</i> und <i>Aloe deinacantha</i> (Aloaceae). <i>Kakteen And. Sukk.</i> 59(2): 43–46.	II
4	<i>Aloe allochroa</i> L.E.Newton & Mwadime	Kenya	Newton, L.E. & Nyange, M. 2019. A new shrubby species of <i>Aloe</i> in Kenya with leaf exudate becoming purple. <i>CactusWorld</i> 37(2): 139–140.	II
5	<i>Aloe ambositrae</i> J.-P.Castillon	Madagascar	Castillon, J.-P. 2008. <i>Aloe ambositrae</i> J-P Castillon, a new species of Asphodelaceae from the highlands of Madagascar. <i>CactusWorld</i> 26(1): 31–34.	II
6	<i>Aloe ambrensis</i> J.-B.Castillon	Madagascar	Castillon, J.-B. 2007. A new species of <i>Aloe</i> (Asphodelaceae) from northernmost Madagascar. <i>CactusWorld</i> 25(1): 12–14.	II
7	<i>Aloe ampefyana</i> J.-B.Castillon	Madagascar	Castillon, J.-B. 2007. <i>Aloe wernerii</i> and <i>Aloe ampefyana</i> , two new <i>Aloe</i> (Asphodelaceae) species from Madagascar. <i>Haseltonia</i> 13: 23–28.	II
8	<i>Aloe analavelonensis</i> Letsara, Rakotoaris. & Almeda	Madagascar	Letsara, R., Rakotoarisoa, S. & Almeda, F. 2012. Three new <i>Aloe</i> species from Madagascar. <i>Malagasy Nat.</i> 6: 46–55.	II
9	<i>Aloe andersonii</i> van Jaarsv. & P.Nel	South Africa	Van Jaarsveld, E. 2014. <i>Aloe andersonii</i> , a new cliff-dwelling aloe from Mpumalanga, South Africa. <i>Bradleya</i> 32: 112–117.	II
10	<i>Aloe anodonta</i> T.A.McCoy & Lavranos	Somalia	McCoy, T.A. & Lavranos, J.J. 2015. Two new additions to the genus <i>Aloe</i> from Somalia. <i>CactusWorld</i> 33(3): 179–184.	II
11	<i>Aloe ansoultae</i> Rebmann	Madagascar	Rebmann, N. 2016. Three new species from southeast Madagascar. <i>Cactus & Succulentes</i> 8(2): –36–.	II
12	<i>Aloe antoetrana</i> J.-B.Castillon	Madagascar	Castillon, J.-B. 2011. Two new <i>Aloe</i> taxa (Asphodelaceae) from the vicinity of the town of Ambatofinandrahana, Madagascar. <i>CactusWorld</i> 29(1): 51–55.	II
13*	<i>Aloe antonii</i> J.-B.Castillon (see Section 4)	Madagascar	Castillon, J.-B. 2006. <i>Aloe antonii</i> Castillon, a new species of Asphodelaceae from the western coast of Madagascar. <i>CactusWorld</i> 24(3): 129–132.	II
14	<i>Aloe argentifolia</i> T.A.McCoy, Rulkens & O.J.Baptista	Mozambique	McCoy, T.A., Rulkens, A.J. & Baptista, O.J. 2017. A new species of <i>Aloe</i> from the Lúrio Waterfalls	II

	Species	Distribution	Reference	CITES App.
			in Mozambique. <i>Cact. Succ. J.</i> (Los Angeles) 89(5): 214–218.	
15*	<i>Aloe argyrostachys</i> Lavranos, Rakouth & T.A.McCoy	Madagascar	Lavranos, J.J., Rakouth, B. & McCoy, T.A. 2007. <i>Aloe argyrostachys</i> , a beautiful new species from the mountains of central Madagascar. <i>Bradleya</i> 25: 17–20.	II
16	<i>Aloe arneodoi</i> Rebmann	Madagascar	Rebmann, N. 2016. <i>Aloe arneodoi</i> , sp.nova. <i>Cactus & Succulentes</i> 8(1): 18–20.	II
17	<i>Aloe aufensis</i> T.A.McCoy	Saudi Arabia	McCoy, T.A. 2007. Three new species of aloes from the Kingdom of Saudi Arabia. <i>Excelsa</i> 21: 1–6.	II
18	<i>Aloe aurelieni</i> J.- B.Castillon	Madagascar	Castillon, J-B. 2008. <i>Aloe aurelieni</i> , a new species of <i>Aloe</i> (Asphodelaceae) from eastern Madagascar. <i>CactusWorld</i> 26(2): 109–113.	II
19	<i>Aloe austrosudanica</i> T.A.McCoy	Sudan	McCoy, T.A. 2016. <i>Aloe austrosudanica</i> T.A.McCoy sp. nov. <i>Avonia</i> 34(4): 196–201.	II
20	<i>Aloe barbara-jeppeae</i> T.A.McCoy & Lavranos	South Africa	McCoy, T.A. & Lavranos, J.J. 2013. <i>Aloe barbara-jeppeae</i> TA McCoy & Lavranos; a long-overdue tribute. <i>Cact. Succ. J.</i> (Los Angeles) 85(4): 154–159.	II
21	<i>Aloe beankaensis</i> Letsara, Rakotoar. & Almeda	Madagascar	Letsara, R., Rakotoarisoa, S. & Almeda, F. 2012. Three new <i>Aloe</i> species from Madagascar. <i>Malagasy Nat.</i> 6: 46–55.	II
22	<i>Aloe belitsakensis</i> Rakotoaris.	Madagascar	Rakotoarisoa, S.E. & Grace, O.M. 2017. <i>Aloe belitsakensis</i> (Asphodelaceae): a new species from north-western Madagascar. <i>Phytotaxa</i> 328(3): 276–282.	II
23	<i>Aloe benishangulana</i> Sebsebe & Tesfaye	Ethiopia	Sebsebe Demissew, Friis, I., Tesfaye Awas, Wilkin, P., Weber, O., Bachman, S. & Nordal, I. 2011. Four new species of <i>Aloe</i> (Aloaceae) from Ethiopia, with notes on the ethics of describing new taxa from foreign countries. <i>Kew Bull.</i> 66(1): 111–121.	II
24	<i>Aloe bernardii</i> J.- P.Castillon	Madagascar	Castillon, J-P. 2011. <i>Aloe bernardii</i> , a new <i>Aloe</i> (Asphodelaceae) from the region of Ikalamavony, Madagascar. <i>Int. Cact. Advent.</i> 89: 25–27.	II
25	<i>Aloe braamvanwykii</i> Gideon F.Sm. & Figueiredo	South Africa	Smith, G.F., Figueiredo, E., Klopper, R.R. & Crouch, N.R. 2012. Summer-flowering species of maculate <i>Aloe</i> L. (Asphodelaceae: Aloioideae) in the <i>Aloe zebrina</i> -complex from South Africa: reinstatement of four names, and description of <i>A. braamvanwykii</i> Gideon F.Sm. & Figueiredo. <i>Bradleya</i> 30: 155–166.	II
26	<i>Aloe butiabana</i> T.C.Cole & T.G.Forrest	Uganda	Cole, T.C. & Forrest, T.G. 2011. Two new <i>Aloe</i> species from Uganda. <i>Cact. Succ. J.</i> (Los Angeles) 83(1): 28–38.	II
27	<i>Aloe calliantha</i> T.A.McCoy & Lavranos	Saudi Arabia	McCoy, T.A. & Lavranos, J.J. 2014. Two new species of <i>Aloe</i> from the Kingdom of Saudi Arabia. <i>Cact. Succ. J.</i> (Los Angeles) 86(6): 258–263.	II
28*	<i>Aloe castilloniae</i> J.- B.Castillon	Madagascar	Castillon, J-B. 2006. <i>Aloe castilloniae</i> , ou nouvel <i>Aloe</i> (Asphodelaceae) su Sud-Oest Malagache. <i>Succulentes</i> 2006(3): 21–24.	II
29	<i>Aloe cataractarum</i> T.A.McCoy & Lavranos	Tanzania	McCoy, T.A. & Lavranos, J.J. 2007. Four interesting new species of Tanzanian aloes. <i>Aloe</i> 44(2): 50–53.	II
30	<i>Aloe challisii</i> van Jaarsv. & A.E.van Wyk	South Africa	Van Jaarsveld, E.J. & Van Wyk, A.E. 2006. <i>Aloe challisii</i> , a new cliff-dwelling <i>Aloe</i> from Mpumalanga, and a checklist of the obligate	II

	Species	Distribution	Reference	CITES App.
			cliff-dwelling aloes in South Africa and Namibia. <i>Aloe</i> 43(2-3): 36–41.	
31	<i>Aloe cipolinicola</i> (H.Perrier) J.-B.Castillon & J.-P.Castillon	Madagascar	Castillon, J-B. & Castillon, J-P. 2010. Les <i>Aloe</i> de Madagascar / The Aloe of Madagascar. J-B. & J-P. Castillon, Renunion.	II
32	<i>Aloe condyae</i> van Jaarsv. & P.Nel	South Africa	Van Jaarsveld, E.J. 2012. <i>Aloe condyae</i> , a new cliff-dwelling aloe from Mpumalanga, Republic of South Africa. <i>Bradleya</i> 30: 167–172.	II
33	<i>Aloe darainensis</i> J.-P.Castillon	Madagascar	Castillon, J-P. 2009. A new small <i>Aloe</i> (Asphodelaceae) from the north-eastern coast of Madagascar. <i>CactusWorld</i> 27(3): 177–179.	II
34	<i>Aloe decumbens</i> (Reynolds) van Jaarsv.	South Africa	Van Jaarsveld, E.J. 2008. <i>Aloe juddii</i> , a new species from the Western Cape, and <i>A. gracilis</i> var. <i>decumbens</i> raised to species level. <i>Aloe</i> 45(1): 4–10.	II
35	<i>Aloe deinacantha</i> T.A.McCoy, Rakouth & Lavranos	Madagascar	McCoy, T.A., Rakouth, B. & Lavranos, J.J. 2008. Zwei neue Aloen aus Madagaskar: <i>Aloe albostriata</i> und <i>Aloe deinacantha</i> (Aloaceae). <i>Kakteen And. Sukk.</i> 59(2): 43–46.	II
36	<i>Aloe delicatifolia</i> J.-B.Castillon	Madagascar	Castillon, J-B. & Mercer, J. 2013. A new species of <i>Aloe</i> from the central highlands of Madagascar. <i>CactusWorld</i> 31(4): 259-261.	II
37	<i>Aloe djiboutiensis</i> T.A.McCoy	Djibouti	McCoy, T.A. 2007. <i>Aloe djiboutiensis</i> and <i>Aloe ericahenriettae</i> two new species from Djibouti. <i>Cact. Succ. J. (Los Angeles)</i> 79(6): 269–273.	II
38	<i>Aloe doddsiorum</i> T.A.McCoy & Lavranos	Kenya	McCoy, T.A. & Lavranos, J.J. 2007. Two significant new aloes from Kenya. <i>CactusWorld</i> 25(4): 209–213.	II
39	<i>Aloe downsiana</i> T.A.McCoy & Lavranos	Ethiopia	McCoy, T.A. & Lavranos, J.J. 2007. Two new species of Ethiopian aloes. <i>CactusWorld</i> 25(3): 137–140.	II
40	<i>Aloe edouardii</i> Rebmann	Madagascar	Rebmann, N. 2008. Three new species of aloes from Madagascar. <i>Int. Cact. Advent.</i> 79: 2–11.	II
41	<i>Aloe elegantissima</i> T.A.McCoy & Lavranos	Somalia	McCoy, T.A. & Lavranos, J.J. 2008. <i>Aloe elegantissima</i> . <i>Cact. Succ. J. (Los Angeles)</i> 80(3): 116–118.	II
42	<i>Aloe elkerriana</i> Dioli & T.A.McCoy	Ethiopia	Dioli, M. & McCoy, T.A. 2007. <i>Aloe elkerriana</i> (Asphodelaceae), a new Ethiopian species from the type locality of <i>Aloe jacksonii</i> . <i>Haseltonia</i> 13: 34–37.	II
43	<i>Aloe ericahenriettae</i> T.A.McCoy	Djibouti	McCoy, T.A. 2007. <i>Aloe djiboutiensis</i> and <i>Aloe ericahenriettae</i> two new species from Djibouti. <i>Cact. Succ. J. (Los Angeles)</i> 79(6): 269–273.	II
44	<i>Aloe eximia</i> Lavranos & T.A.McCoy	Madagascar	Lavranos, J.J., McCoy, T.A., Razadindratsira, A. & Pronk, O. 2006. <i>Aloe eximia</i> – an attractive new species from Madagascar. <i>CactusWorld</i> 24(4): 199–200.	II
45	<i>Aloe gautieri</i> J.-P.Castillon & Nusb.	Madagascar	Castillon, J-P. & Nusbaumer, L. 2014. <i>Aloe gautieri</i> J.-P.Castillon & Nusb. (Xanthorrhoeaceae), a new species from the northeastern coast of Madagascar. <i>Candollea</i> 69(1): 75–80.	II
46	<i>Aloe ghibensis</i> Sebsebe & Friis	Ethiopia	Sebsebe Demissew, Friis, I., Tesfaye Awas, Wilkin, P., Weber, O., Bachman, S. & Nordal, I. 2011. Four new species of <i>Aloe</i> (Aloaceae) from Ethiopia, with notes on the ethics of describing new taxa from foreign countries. <i>Kew Bull.</i> 66(1): 111–121.	II

	Species	Distribution	Reference	CITES App.
47	<i>Aloe gneissicola</i> (H.Perrier) J.-B.Castillon & J.-P.Castillon	Madagascar	Castillon, J-B. & Castillon, J-P. 2010. Les <i>Aloe</i> de Madagascar / The Aloe of Madagascar. J-B. & J-P. Castillon, Renunion.	II
48	<i>Aloe graniticola</i> Rebmann	Madagascar	Rebmann, N. 2013. Une nouvelle espèce d' <i>Aloe</i> de Madagascar. <i>Cact. Succ.</i> 5(2): 52–57.	II
49	<i>Aloe haggeherensis</i> T.A.McCoy & Lavranos	Socotra	McCoy, T.A. & Lavranos, J.J. 2007. Lebensraum in Granitfelsen: <i>Aloe lanata</i> und <i>Aloe haggeherensis</i> (Aloeaceae), zwei neue Aloen aus dem Jemen. <i>Kakteen And. Sukk.</i> 58(11): 297 (2007)	II
50	<i>Aloe hahnii</i> Gideon F.Sm. & Klopper	South Africa	Klopper, R.R. & Smith, G.F. 2009. Asphodelaceae: <i>Aloe hahnii</i> , a new species in the Section <i>Pictae</i> , in the Soutpansberg Centre of Endemism, Limpopo Province, South Africa. <i>Bothalia</i> 39(1): 98–100.	II
51	<i>Aloe haroniensis</i> T.A.McCoy, Plowes & O.J.Baptista	Zimbabwe	McCoy, T.A., Plowes, D. & Baptista, O.J. 2014. An unexpected new species of <i>Aloe</i> from Zimbabwe. <i>Cact. Succ. J.</i> (Los Angeles) 86(4): 154–157.	II
52	<i>Aloe huntleyana</i> van Jaarsv. & Swanepoel	Namibia	Van Jaarsveld, E.J. & Swanepoel, W. 2012. <i>Aloe huntleyana</i> , a new species from the Baynes Mountains, Namibia. <i>Bradleya</i> 30: 3–8.	II
53	<i>Aloe ifanadianae</i> J.-B.Castillon	Madagascar	Castillon, J-B. 2008. <i>Aloe ifanadianae</i> J-B Castillon, a new species of <i>Aloe</i> (Asphodelaceae) from eastern Madagascar. <i>CactusWorld</i> 26(4): 237–242.	II
54	<i>Aloe ikiorum</i> Dioli & G.Powys	Uganda	Dioli, M. 2011. <i>Aloe ikiorum</i> : a new species from Uganda. <i>Cact. Succ. J.</i> (Los Angeles) 83(6): 270–274.	II
55	<i>Aloe iringaensis</i> Starha & Pavelka	Tanzania	Starha, R. & Pavelka, P. 2020. <i>Aloe iringaensis</i> a new species from Tanzania. <i>Cact. Succ. J.</i> (Los Angeles) 92(1): 16–19.	II
56	<i>Aloe ithya</i> T.A.McCoy & L.E.Newton	Sudan	McCoy, T.A. & Newton, L.E. A new shrubby species of <i>Aloe</i> in the Imatong Mountains, Southern Sudan. <i>Haseltonia</i> 19: 64–65.	II
57	<i>Aloe ivakoanyensis</i> Letsara, Rakotoar. & Almeda	Madagascar	Letsara, R., Rakotoarisoa, S. & Almeda, F. 2012. Three new <i>Aloe</i> species from Madagascar. <i>Malagasy Nat.</i> 6: 46–55.	II
58	<i>Aloe jibisana</i> L.E.Newton	Kenya	Newton, L.E. 2006. <i>Aloe jibisana</i> (Asphodelaceae), a new species from an isolated North Kenya mountain. <i>Haseltonia</i> 12: 19–21.	II
59	<i>Aloe johannis-bernardii</i> J.-P.Castillon	Madagascar	Castillon, J-P. 2008. Description of a new <i>Aloe</i> (Asphodelaceae) from the East-Coast of Madagascar: <i>Aloe johannis-bernardii</i> . <i>Int. Cact. Advent.</i> 80: 11–16.	II
60	<i>Aloe johannis-philippeii</i> J.-B.Castillon	Madagascar	Castillon, J-B. 2009. <i>Aloe johannis-philippeii</i> , a new <i>Aloe</i> (Asphodelaceae) from the high mountains of central Madagascar. <i>CactusWorld</i> 27(1): 51–56.	II
61*	<i>Aloe juddii</i> van Jaarsv.	South Africa	Van Jaarsveld, E.J. 2008. <i>Aloe juddii</i> , a new species from the Western Cape, and <i>A. gracilis</i> var. <i>decumbens</i> raised to species level. <i>Aloe</i> 45(1): 4–10.	II
62	<i>Aloe kahinii</i> T.A.McCoy & Lavranos	Somalia	McCoy, T.A. & Lavranos, J.J. 2007. <i>Aloe rubrodonta</i> and <i>Aloe kahinii</i> (Asphodelaceae), two notable new species from Somaliland. <i>Haseltonia</i> 13: 29–33.	II

	Species	Distribution	Reference	CITES App.
63	<i>Aloe kannelii</i> van Jaarsv.	South Africa	Van Jaarsveld, E.J. 2009. <i>Aloe kannelii</i> , a new cliff-dwelling species of <i>Aloe</i> section <i>Aloe</i> series <i>Rhodacantha</i> from the Western Cape (South Africa). <i>Aloe</i> 46(2): 36–45.	II
64	<i>Aloe kaokoensis</i> van Jaarsv., Swanepoel & A.E.van Wyk	Namibia	Van Jaarsveld, E.J., Swanepoel, W. & Van Wyk, A.E. 2006. Asphodelaceae: <i>Aloe kaokoensis</i> , a new species from the Kaokoveld, northwestern Namibia. <i>Bothalia</i> 36(1): 75–77.	II
65	<i>Aloe knersvlakensis</i> S.J.Marais	South Africa	Marais, S.J. 2010. <i>Aloe knersvlakensis</i> , a new aloe from the north-eastern Knersvlakte. <i>Aloe</i> 47(4): 96–99.	II
66	<i>Aloe koenenii</i> Lavranos & Kerstin Koch	Jordan (introduced)	Lavranos, J.J. & Koch, K. 2006. A new, yet introduced, species of <i>Aloe</i> from around Petra in Jordan. <i>Cact. Succ. J.</i> (Los Angeles) 78(5): 222–223.	II
67	<i>Aloe kwasimbana</i> T.A.McCoy & Lavranos	Tanzania	McCoy, T.A. & Lavranos, J.J. 2007. Four interesting new species of Tanzanian aloes. <i>Aloe</i> 44(2): 50–53.	II
68	<i>Aloe lanata</i> T.A.McCoy & Lavranos	Yemen	McCoy, T.A. & Lavranos, J.J. 2007. Lebensraum in Granitfelsen: <i>Aloe lanata</i> und <i>Aloe haggeherensis</i> (Aloeaceae), zwei neue Aloen aus dem Jemen. <i>Kakteen And. Sukk.</i> 58(11): 297 (2007)	II
69	<i>Aloe latens</i> T.A.McCoy & Lavranos	Tanzania	McCoy, T.A. & Lavranos, J.J. 2007. Four interesting new species of Tanzanian aloes. <i>Aloe</i> 44(2): 50–53.	II
70	<i>Aloe liliputana</i> van Jaarsv. & Harrower	South Africa	Van Jaarsveld, E.J. & Harrower, A. 2014. <i>Aloe liliputana</i> , a new grass aloe from Pondoland, Eastern Cape, Republic of South Africa. <i>Bradleya</i> 32: 30–35.	II
71	<i>Aloe lukeana</i> T.C.Cole	Uganda, Sudan	Cole, T.C. 2015. <i>Aloe lukeana</i> : a new, caulescent aloe from Uganda. <i>Cact. Succ. J.</i> (Los Angeles) 87(4): 152–159.	II
72	<i>Aloe manandonae</i> J.-B.Castillon & J.-P.Castillon	Madagascar	Castillon, J-P. & Castillon, J-B. 2008. Une nouvelle espèce d'Aloe des Hauts Plateaux de Madagascar. <i>Succulentes</i> 2008(2): 3–9.	II
73	<i>Aloe mandrarensis</i> J.-P.Castillon	Madagascar	Castillon, J-P. & Vanden Bon, A. 2012. Two new species of <i>Aloe</i> (Asphodelaceae) from Madagascar. <i>CactusWorld</i> 30(3): 163–169.	II
74	<i>Aloe mangeaensis</i> L.E.Newton & S.Carter	Kenya	Newton, L.E. & Carter, S. 2017. A new <i>Aloe</i> species in Kenya. <i>CactusWorld</i> 35(1): 53–54.	II
75	<i>Aloe maningoryensis</i> J.-P.Castillon	Madagascar	Castillon, J-P. 2017. Deux nouvelles espèces d' <i>Aloe</i> L. (Xanthorrhoeaceae, Asphodelaceae), section <i>Lomatophyllum</i> Rowley, de Madagascar. <i>Adansonia</i> 39(1): 7–13.	II
76	<i>Aloe martialii</i> J.-B.Castillon	Madagascar	Castillon, J-B. 2010. Description de deux taxa nouveaux dans le genre <i>Aloe</i> (Asphodelaceae) à Madagascar; à propos de l' <i>Aloe mandotoensis</i> J.-B.Castillon. <i>Int. Cact. Advent.</i> 85: 2–8.	II
77	<i>Aloe miskatana</i> S.Carter	Somalia	Carter, S. 2006. A new species of aloe from northeast Somalia. <i>Nordic J. Bot.</i> 24(3): 245–247.	II
78	<i>Aloe mkushiana</i> T.A.McCoy	Zambia	McCoy, T.A. 2017. A new species of cremnophytic <i>Aloe</i> from the Republic of Zambia. <i>Cact. Succ. J.</i> (Los Angeles) 89(6): 276–279.	II
79	<i>Aloe mocamedensis</i> van Jaarsv.	Angola	Van Jaarsveld, E.J. 2012. <i>Aloe mocamedensis</i> , a new species from the Namib Desert, south-western Angola. <i>Bradleya</i> 30: 173–178.	II

	Species	Distribution	Reference	CITES App.
80	<i>Aloe momccoyae</i> T.A.McCoy & Lavranos	Saudi Arabia	McCoy, T.A. & Lavranos, J.J. 2015. Eine bemerkenswerte neue <i>Aloe</i> aus dem Königreich Saudi-Arabien. <i>Avonia</i> 33(4): 184–191.	II
81	<i>Aloe montis-nabro</i> Orlando & El Azzouni	Eritrea	Orlando, G. & El Azzouni, M. 2014. A new species of <i>Aloe</i> from southern Eritrea. <i>CactusWorld</i> 32(3): 199–203.	II
82	<i>Aloe mossurilensis</i> Ellert	Mozambique	Ellert, A. 2008. <i>Aloe mossurilensis</i> Ellert sp.nov.: a long-overlooked species from northern Madagascar. <i>Alsterworthia Int.</i> 8(1): 24–27. [nom.inval.] Ellert, A. 2010. <i>Aloe mossurilensis</i> Ellert sp.nov. <i>Alsterworthia Int.</i> 10(1): 6.	II
83	<i>Aloe mottramiana</i> J.-B.Castillon	Madagascar	Castillon, J-B. & Quail, D. 2011. A new <i>Aloe</i> (Asphodelaceae) from the area of Fort Dauphin, Madagascar. <i>CactusWorld</i> 29(4): 217–219.	II
84	<i>Aloe neilcrouchii</i> Klopper & Gideon F.Sm.	South Africa	Klopper, R.R. & Smith, G.F. 2010. Asphodelaceae: <i>Aloe neilcrouchii</i> , a new robust Leptaloe from KwaZulu-Natal, South Africa. <i>Bothalia</i> 40(1): 93–96.	II
85	<i>Aloe neoqaharensis</i> T.A.McCoy	Saudi Arabia	McCoy, T.A. 2007. Three new species of aloes from the Kingdom of Saudi Arabia. <i>Excelsa</i> 21: 1–6.	II
86	<i>Aloe neosteudneri</i> Lavranos & T.A.McCoy	Eritrea	Lavranos, J.J. & McCoy, T.A. 2007. The identity of <i>Aloe steudneri</i> Schweinfurth and a new species, <i>Aloe neosteudneri</i> , from Mt. Saber, Eritrea. <i>Bradleya</i> 25: 15 (2007)	II
87	<i>Aloe newtonii</i> J.-B.Castillon	Madagascar	Castillon, J-B. 2009. Rectification of a mistake by G.W. Reynolds on a Malagasy <i>Aloe</i> (Asphodelaceae) and description of a new species. <i>Bradleya</i> 27: 145–152.	II
88	<i>Aloe ngutwaensis</i> T.Mwadime & Matheka	Kenya	Matheka, K.W., Malombe, I., Mwadime, T., Wabuyele, E. & Newton, L.E. 2020. <i>Aloe ngutwaensis</i> (Asphodelaceae), a new species in Makueni County, south-eastern Kenya. <i>CactusWorld</i> 38(3): 211–215.	II
89	<i>Aloe nicholsii</i> Gideon F.Sm. & N.R.Crouch	South Africa	Smith, G.F. & Crouch, N.R. 2010. <i>Aloe nicholsii</i> Gideon F.Sm. & N.R.Crouch (Asphodelaceae): a new leptaloe from KwaZulu-Natal, South Africa. <i>Bradleya</i> 28: 103–106.	II
90	<i>Aloe niensiensis</i> L.E.Newton	Tanzania	Newton, L.E. & Vanden Bon, A. 2015. A new species of <i>Aloe</i> in Tanzania with second flowers. <i>CactusWorld</i> 33(1): 50–52.	II
91	<i>Aloe nigrimontana</i> T.A.McCoy & Lavranos	Somalia	McCoy, T.A. & Lavranos, J.J. 2015. Two new additions to the genus <i>Aloe</i> from Somalia. <i>CactusWorld</i> 33(3): 179–184.	II
92	<i>Aloe nordaliae</i> Wabuyele	Tanzania	Wabuyele, E.W., Brysting, A.K. & Newton, L.E. 2006. The <i>Aloe secundiflora</i> complex in East Africa (Aloaceae): Taxonomy and molecular relationships. In: E.W. Wabuyele, Studies on Eastern African aloes: aspects of taxonomy, conservation and ethnobotany; Paper V: 1–34. Ph.D. Dissertation, University of Oslo, Oslo.	II
93	<i>Aloe nugalensis</i> Thulin	Somalia	Thulin, M. 2012. <i>Aloe nugalensis</i> sp. nov. (Asphodelaceae), a new gypsum endemic from northeastern Somalia. <i>Nordic J. Bot.</i> 30(6): 729–731.	II
94	<i>Aloe omoana</i> T.A.McCoy & Lavranos	Ethiopia	McCoy, T.A. & Lavranos, J.J. 2007. Two new species of Ethiopian aloes. <i>CactusWorld</i> 25(3): 137–140.	II

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95	<i>Aloe pachydactylos</i> T.A.McCoy & Lavranos	Madagascar	McCoy, T.A. & Lavranos, J.J. 2007. A coastal and a montane new species of Madagascan <i>Aloe</i> . <i>Cact. Succ. J.</i> (Los Angeles) 79(3): 126–130.	II
96	<i>Aloe pavelkae</i> van Jaarsv., Swanepoel, A.E.van Wyk & Lavranos	Namibia	Van Jaarsveld, E.J., Swanepoel, W., Van Wyk, A.E. Lavranos, J.J. <i>Aloe pavelkae</i> , a new cliff-dwelling species of <i>Aloe</i> series 'Mitriformes' from southern Namibia. <i>Aloe</i> 44(3): 75–79.	II
97	<i>Aloe perdita</i> Ellert	Zimbabwe	Ellert, A.F.N. (2008). <i>Aloe perdita</i> , a long-lost species from the Chimanimani Mountains on the Zimbabwe / Moçambique border. <i>Aloe</i> 45(3): 76–77.	II
98	<i>Aloe rakotonasoloi</i> Rakotoaris.	Madagascar	Rakotoarisoa, S.E., Rakotonasolo, F., Rabarijaona, R.N. & Grace, O.M. 2020. Two new species of <i>Aloe</i> (Asphodelaceae) from the Eastern Humid Forest of Madagascar. <i>Phytotaxa</i> 455(1): 40–46.	II
99	<i>Aloe rapanarivoi</i> J.-P.Castillon	Madagascar	Castillon, J-P. 2009. Description of two new taxa in the genus <i>Aloe</i> (Asphodelaceae) from Madagascar. <i>Int. Cact. Advent.</i> 81: 18 (2009)	II
100	<i>Aloe ribauensis</i> T.A.McCoy, Rulkens & O.J.Baptista	Mozambique	McCoy, T.A., Rulkens, A.J.H. & Baptista, E.J. 2014. An extraordinary new species of <i>Aloe</i> from the Republic of Mozambique. <i>Cact. Succ. J.</i> (Los Angeles) 86(2): 48–53.	II
101	<i>Aloe richaudii</i> Rebmann	Madagascar	Rebmann, N. 2008. Three new species of aloes from Madagascar. <i>Int. Cact. Advent.</i> 79: 2–11.	II
102	<i>Aloe rodolpheii</i> J.-B.Castillon	Madagascar	Castillon, J-B. 2008. A new aloe (Asphodelaceae) from northern Madagascar. <i>Int. Cact. Advent.</i> 77: 2–5.	II
103	<i>Aloe rouxii</i> van Jaarsv.	South Africa	Van Jaarsveld, E.J. 2016. <i>Aloe rouxii</i> — eine neue Gras-Aloe aus der Provinz Mpumalanga (Südafrika). <i>Avonia</i> 34(1): 12–15	II
104	<i>Aloe rubrodonta</i> T.A.McCoy & Lavranos	Somalia	McCoy, T.A. & Lavranos, J.J. 2007. <i>Aloe rubrodonta</i> and <i>Aloe kahinii</i> (Asphodelaceae), two notable new species from Somaliland. <i>Haseltonia</i> 13: 29–33.	II
105	<i>Aloe rulkensii</i> T.A.McCoy & O.J.Baptista	Mozambique	McCoy, T.A. & Baptista, O.J. 2016. A new species of cremnohytic <i>Aloe</i> from Mozambique. <i>Cact. Succ. J.</i> (Los Angeles) 88(4): 172–176.	II
106	<i>Aloe ruvuensis</i> T.A.McCoy & Lavranos	Tanzania	McCoy, T.A. & Lavranos, J.J. 2007. Four interesting new species of Tanzanian aloes. <i>Aloe</i> 44(2): 50–53.	II
107	<i>Aloe sanguinalis</i> Awale & Barkworth	Somalia	Barkworth, M.E., Awale, A.I. & Gelle, F.J. 2019. Dacar Cas/Somali Red Aloe: a new species of <i>Aloe</i> (Asphodelaceae) from Somaliland. <i>PhytoKeys</i> 117: 85–97.	II
108	<i>Aloe saudiarabica</i> T.A.McCoy	Saudi Arabia	McCoy, T.A. 2007. Three new species of aloes from the Kingdom of Saudi Arabia. <i>Excelsa</i> 21: 1–6.	II
109	<i>Aloe seibanica</i> Orlando & El Azzouni	South Yemen	Orlando, G. & El Azzouni, M. 2010. A new, cliff-dwelling aloe from south-east Yemen. <i>CactusWorld</i> 28(4): 207–210.	II
110	<i>Aloe sergoitensis</i> L.E.Newton	Kenya	Newton, L.E. 2018. <i>Aloe sergoitensis</i> , a new species of <i>Aloe</i> (Asphodelaceae) in Kenya, with forked marginal teeth on the leaves. <i>Haseltonia</i> 25: 125–127.	II
111	<i>Aloe sharoniae</i> N.R.Crouch & Gideon F.Sm.	South Africa	Crouch, N.R. & Smith, G.F. 2011. <i>Aloe sharoniae</i> N.R.Crouch & Gideon F.Sm. (Asphodelaceae): species rank for a leptaloe from southern Africa. <i>Bradleya</i> 29: 115–120.	II

	Species	Distribution	Reference	CITES App.
112	<i>Aloe sobolifera</i> (S.Carter) Wabuye	Tanzania	Wabuye, E.W., Brysting, A.K. & Newton, L.E. 2006. The <i>Aloe secundiflora</i> complex in East Africa (Aloaceae): Taxonomy and molecular relationships. In: E.W. Wabuye, Studies on Eastern African aloes: aspects of taxonomy, conservation and ethnobotany; Paper V: 1–34. Ph.D. Dissertation, University of Oslo, Oslo.	II
113	<i>Aloe spinitriaggregata</i> J.-B.Castillon	Madagascar	Castillon, J-B. 2011. <i>Aloe spinitriaggregata</i> J-B.Castillon, a new <i>Aloe</i> (Asphodelaceae) from Ikalamavony area. <i>Int. Cact. Advent.</i> 90: 2–5.	II
114	<i>Aloe springatei-neumannii</i> L.E.Newton	Kenya	Newton, L.E. 2011. Two new species of <i>Aloe</i> in Kenya. <i>Bradleya</i> 29: 57–60.	II
115	<i>Aloe tartarensis</i> T.A.McCoy & Lavranos	Kenya	McCoy, T.A. & Lavranos, J.J. 2007. Two significant new aloes from Kenya. <i>CactusWorld</i> 25(4): 209–213.	II
116	<i>Aloe tegetiformis</i> L.E.Newton	Kenya	Newton, L.E. 2011. Two new species of <i>Aloe</i> in Kenya. <i>Bradleya</i> 29: 57–60.	II
117 *	<i>Aloe tongaensis</i> van Jaarsv.	South Africa	Van Jaarsveld, E.J. 2010. <i>Aloe tongaensis</i> , a new species from Tongaland, KwaZulu-Natal (South Africa), and a new sectional arrangement of the tree aloes. <i>Aloe</i> 47(3): 64–71.	II
118	<i>Aloe tsitongambarikana</i> J.-P.Castillon & J.-B.Castillon	Madagascar	Castillon, J-B., Castillon, J-P. & Vanden Bon, A. 2016. A new <i>Aloe</i> (Asphodelaceae) from around Tôlanaro, Madagascar. Comments on <i>Aloe versicolor</i> Guillaumin subsp. <i>stefanieana</i> (Rauh). <i>CactusWorld</i> 34(2): 111–115.	II
119	<i>Aloe uncinata</i> L.E.Newton & Wabuye	Kenya	Newton, L.E. & Wabuye, E.N. 2018. Two new species of <i>Aloe</i> (Asphodelaceae) in Kenya. <i>CactusWorld</i> 36(2): 185–188.	II
120	<i>Aloe vanrooyenii</i> Gideon F.Sm. & N.R.Crouch	South Africa	Smith, G.F. & Crouch, N.R. 2006. Asphodelaceae: <i>Aloe vanrooyenii</i> : a distinctive new maculate aloe from KwaZulu-Natal, South Africa. <i>Bothalia</i> 36(1): 73–75.	II
121	<i>Aloe varimaculata</i> T.A.McCoy	Angola	McCoy, T.A. 2016. A new species of <i>Aloe</i> from the Republic of Angola. <i>Cact. Succ. J.</i> (Los Angeles) 88(6): 277–280.	II
122	<i>Aloe vatovavensis</i> Rakotoaris.	Madagascar	Rakotoarisoa, S.E., Rakotonasolo, F., Rabarijaona, R.N. & Grace, O.M. 2020. Two new species of <i>Aloe</i> (Asphodelaceae) from the Eastern Humid Forest of Madagascar. <i>Phytotaxa</i> 455(1): 40–46.	II
123	<i>Aloe virginieae</i> J.-P.Castillon	Madagascar	Castillon, J-P. & Vanden Bon, A. 2012. Two new species of <i>Aloe</i> (Asphodelaceae) from Madagascar. <i>CactusWorld</i> 30(3): 163–169.	II
124	<i>Aloe viridiana</i> Gideon F.Sm. & Figueiredo (Synonym: <i>Aloe greenii</i> Baker)	South Africa, Mozambique	Smith, G.F. & Figueiredo, E. 2018. <i>Aloe viridiana</i> Gideon F.Sm. & Figueiredo (Asphodelaceae: Aloioideae), a replacement name for the illegitimate <i>Aloe greenii</i> Baker, a maculate aloe endemic to KwaZulu-Natal, South Africa, with notes on the nomenclature of this species. <i>Bradleya</i> 36: 212–217 (2018).	II
125	<i>Aloe wanalensis</i> T.C.Cole & T.G.Forrest	Uganda	Cole, T.C. & Forrest, T.G. 2011. Two new <i>Aloe</i> species from Uganda. <i>Cact. Succ. J.</i> (Los Angeles) 83(1): 28–38.	II
126	<i>Aloe welmelensis</i> Sebsebe & Nordal	Ethiopia	Sebsebe Demissew, Friis, I., Tesfaye Awas, Wilkin, P., Weber, O., Bachman, S. & Nordal, I. 2011. Four new species of <i>Aloe</i> (Aloaceae) from Ethiopia, with notes on the ethics of describing	II

	Species	Distribution	Reference	CITES App.
			new taxa from foreign countries. <i>Kew Bull.</i> 66(1): 111–121.	
127	<i>Aloe weloensis</i> Sebsebe	Ethiopia	Sebsebe Demissew, Friis, I., Tesfaye Awas, Wilkin, P., Weber, O., Bachman, S. & Nordal, I. 2011. Four new species of <i>Aloe</i> (Aloaceae) from Ethiopia, with notes on the ethics of describing new taxa from foreign countries. <i>Kew Bull.</i> 66(1): 111–121.	II
128 *	<i>Aloe weneri</i> J.- B.Castillon	Madagascar	Castillon, J-B. 2007. <i>Aloe weneri</i> and <i>Aloe ampefyana</i> , two new <i>Aloe</i> (Asphodelaceae) species from Madagascar. <i>Haseltonia</i> 13: 23–28.	II
129	<i>Aloe zubb</i> T.A.McCoy & Lavranos	Sudan	McCoy, T.A., Lavranos, J.J. & Vanden Bon, A. 2015. A new species of <i>Aloe</i> from the Sudan, and the answer to a long-standing mystery. <i>CactusWorld</i> 33(1): 27–34.	II
130	<i>Aloe zygorabaiensis</i> L.E.Newton & Wabuyele	Kenya	Newton, L.E. & Wabuyele, E.N. 2018. Two new species of <i>Aloe</i> (Asphodelaceae) in Kenya. <i>CactusWorld</i> 36(2): 185–188.	II

Section 3: Corrections to be made on online Checklist of CITES Species (CCS)

Name	Treatment on CCS	Action required
<i>Aloe antonii</i> (Engl.) Boatwr. & J.C.Manning	Synonym of <i>Aloe</i> spp.	Add as accepted name and correct author citation (see Section 2 nr 13)
<i>Aloe bergeriana</i> (Dinter) Boatwr. & J.C.Manning	Synonym of <i>Aloe</i> spp.	Remove from checklist (<i>Aloe</i> sect. <i>Chortolirion</i>)
<i>Aloe tenuifolia</i>	Synonym of <i>Aloe</i> spp.	Remove from checklist (<i>Aloe</i> sect. <i>Chortolirion</i>)

Recommendations

We recommend the following interim measures to clarify the use of names for *Aloe* and related genera by CITES until such time as the updated CITES checklist for aloes are finalised. We will submit for consideration at the 19th Conference of the Parties, the following adjustments and additions to the Checklist of CITES Species:

- 1) correct the synonymy of *Aloiampelos decumbens* as indicated in Section 1.
- 2) add *Aloiampelos juddii*, *Aloidendron tongaense*, *Kumara haemanthifolia*, and names in *Aloestrela*, *Aristaloe*, and *Gonialoe*, as indicated in Section 1.
- 3) add names of aloes described after publication of the current CITES checklist and its supplement, as indicated in Section 2.
- 4) develop amendments as reflected in Section 3 of this Annex.

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