



**CONVENTION ON
MIGRATORY
SPECIES**

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Manila, Philippines, 23 - 28 October 2017
Agenda Item 25.3

TAXONOMY AND NOMENCLATURE

(Prepared by the Secretariat)

Summary:

In order to assist the Scientific Council in the implementation of Resolution 11.19 on the Taxonomy and Nomenclature of Birds Listed on the CMS Appendices, the Secretariat has undertaken an analysis of the implications of adopting the taxonomic reference for passerine birds proposed by the Conference of Parties at its 11th meeting (COP11).

The CMS Appendices will be updated accordingly once the new bird reference is adopted by the Conference of the Parties at its 12th meeting.

In addition, a proposal is made to update the reference for fish taxonomy in accordance with the recommendation of the Scientific Council. A new procedure is proposed to apply this reference.

This document should be read in conjunction with UNEP/CMS/COP12/Doc.21.2.2 concerning resolutions to be consolidated.

THE TAXONOMY AND NOMENCLATURE OF SPECIES LISTED ON THE CMS APPENDICES

Background

1. In this document, three issues are addressed in particular: Bird Taxonomy and Nomenclature; Fish Taxonomy and Nomenclature; and a proposed new Resolution on Taxonomy and Nomenclature.

Bird Taxonomy and Nomenclature

2. Through Resolution 11.19, the Conference of Parties adopted as standard reference for bird taxonomy and nomenclature for non-passerine species the Handbook of the Birds of the World/BirdLife International Illustrated Checklist of the Birds of the World, Volume 1: Non-Passerines, by Josep del Hoyo and Nigel J. Collar (2014).
3. Resolution 11.19 requests the Scientific Council to consider the implications of adopting as a standard reference for passerine birds the Handbook of the Birds of the World/BirdLife International Illustrated Checklist of the Birds of the World, Volume 2: Passerines, which was published in late 2016.
4. In order to assist the Scientific Council in the implementation of Resolution 11.19, the Secretariat has undertaken an analysis of the implications of adopting the new taxonomic reference for passerines. To this end, the Secretariat has checked species by species for incongruences between the former species names found in the CMS Appendices and the species names in the new reference.
5. Annex I shows the implications on Appendix I-listed passerines. Annex 2 does the same for Appendix II-listed passerines. In accordance with the draft consolidated resolution on taxonomy and nomenclature (UNEP/CMS/COP12/Doc.21.2.2), rules for the treatment of cases of synonymy, species splitting and species aggregation (lumping) as a result of a change of nomenclature reference apply.
6. The proposal to the Conference of Parties is to adopt Volume 2: Passerines. Once adopted the other bird references will be deleted from the Annex to the Resolution.

Fish Taxonomy and Nomenclature

7. The Sessional Committee of the Scientific Council, at its first meeting (2016), reconfirmed the recommendation made by the 18th Meeting of the Scientific Council to use as taxonomic and nomenclatural reference for fish, the online database Eschmeyer, W. N., R. Fricke, and R. van der Laan (eds.), Catalog of Fishes: Genera, Species, References (<http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>) since the current standard reference Eschmeyer, W.N. (1990) Catalogue of the Genera of Recent Fishes, was no longer in print. The online version is being updated continually.
8. It was further suggested referring to this online reference at the time of listing new species on the Appendices of CMS and to preserve a hard-copy excerpt from the online reference as the standard reference for the newly listed species.
9. CITES had already faced the same issue and has adopted a similar policy. Thus, adopting the same procedure would also help to keep harmony between the Appendices of both Conventions, as requested by Parties.

10. It is proposed that the Scientific Council reviews the online version of the reference for the species listed on the Appendices at its last meeting before each meeting of the Conference of Parties and make recommendations as to whether the name of any listed species should be updated.
11. In the event that online versions of standard references for other taxonomic groups are adopted, a similar approach might be taken.
12. The Secretariat has undertaken an analysis of discrepancies between the name of fish taxa as currently listed on the CMS Appendices and the name of the same taxa as reflected in the online version of Eschmeyer as of 28 April 2017. Annex 3 shows the results of this analysis.
13. It should be noted that if the names of all fish taxa currently listed on the Appendices were harmonized with the online version of Eschmeyer, this would result in some inconsistencies with the Sharks MOU Annex 1, CITES Appendices and lists maintained by other organizations concerned with the management and conservation of these species. The Secretariat therefore recommends a conservative approach, including postponing any update of the species names on the Appendices until the new taxonomy has been confirmed by the majority of scientists and other legal frameworks such as CITES.

New Resolution

14. In order to incorporate these developments, revisions have been made to the consolidated resolution contained in Annex 2 of Document 21.2.2. For background on this process please refer to Documents 21 and 21.2.

Recommended actions

The Conference of the Parties is recommended to:

- a) Take note of Annex 1, 2 and 3;
- b) Adopt the amendments to the draft Resolution on Taxonomy and Nomenclature included in Annex 4;
- c) Adopt the draft Decision included in Annex 5.

ANNEX 1

IMPLICATIONS OF ADOPTING THE HANDBOOK OF THE BIRDS OF THE WORLD/BIRDLIFE INTERNATIONAL ILLUSTRATED CHECKLIST OF THE BIRDS OF THE WORLD, VOLUME 2: PASSERINES ON APPENDIX I LISTED PASSERINES. CHANGES IN NOMENCLATURE ARE SHOWN IN BOLD AND YELLOW.

Family	Current name in Appendix I	English name	Family name in Illustrated Checklist of the Birds of the World	Species name in Illustrated Checklist of the Birds of the World	IUCN Status
Tyrannidae	<i>Alectrurus risora</i>	Strange-tailed Tyrant	Tyrannidae	<i>Alectrurus risora</i>	VU
	<i>Alectrurus tricolor</i>	Cock-tailed tyrant		<i>Alectrurus tricolor</i>	VU
Hirundinidae	<i>Hirundo atrocaerulea</i>	Blue Swallow	Hirundinidae	<i>Hirundo atrocaerulea</i>	VU
Muscicapidae	<i>Acrocephalus griseldis</i>	Basra Reed-warbler	Acrocephalidae	<i>Acrocephalus griseldis</i>	EN
	<i>Acrocephalus paludicola</i>	Aquatic Warbler		<i>Acrocephalus paludicola</i>	VU
	<i>Acrocephalus sorghophilus</i>	Streaked Reed-warbler		<i>Acrocephalus sorghophilus</i>	EN
	<i>Zoothraupis guttata</i>	Spotted Ground-thrush	Turdidae	<i>Geothlypis guttata</i>	EN
Emberizidae	<i>Emberiza aureola</i>	Yellow-Breasted Bunting	Emberizidae	<i>Emberiza aureola</i>	EN
	<i>Sporophila zelichi</i>	Marsh Seedeater	Thraupidae	<i>Sporophila palustris</i>¹	EN
	<i>Sporophila cinnamomea</i>	Chestnut Seedeater	Thraupidae	<i>Sporophila cinnamomea</i>	VU
	<i>Sporophila hypochroma</i>	Rufous-rumped Seedeater	Thraupidae	<i>Sporophila hypochroma</i>	NT
	<i>Sporophila palustris</i>	Marsh Seedeater	Thraupidae	<i>Sporophila palustris</i> ¹	EN
Parulidae	<i>Dendroica kirtlandii</i>	Kirtland's Warbler	Parulidae	<i>Setophaga kirtlandii</i>	NT
	<i>Dendroica cerulea</i>	Cerulean Warbler		<i>Setophaga cerulea</i>	VU
Icteridae	<i>Agelaius flavus</i>	Saffron-cowled Blackbird	Icteridae	<i>Xanthopsar flavus</i>	VU
Fringillidae	<i>Serinus syriacus</i>	Syrian Serin	Fringillidae	<i>Serinus syriacus</i>	VU

¹ *Sporophila zelichi* and *Sporophila palustris* have been merged into *Sporophila palustris*

ANNEX 2

IMPLICATIONS OF ADOPTING THE HANDBOOK OF THE BIRDS OF THE WORLD/BIRDLIFE INTERNATIONAL ILLUSTRATED CHECKLIST OF THE BIRDS OF THE WORLD, VOLUME 2: PASSERINES ON APPENDIX II LISTED PASSERINES. CHANGES IN NOMENCLATURE ARE SHOWN IN BOLD AND YELLOW.

Family	Current name in Appendix II	English name	Family name in Illustrated Checklist of the Birds of the World	Species name in Illustrated Checklist of the Birds of the World	IUCN Status
Hirundinidae	<i>Hirundo atrocaerulea</i>	Blue Swallow	Hirundinidae	<i>Hirundo atrocaerulea</i>	VU
Tyrannidae	<i>Alectrurus risora</i>	Strange-tailed Tyrant	Tyrannidae	<i>Alectrurus risora</i>	VU
	<i>Alectrurus tricolor</i>	Cock-tailed tyrant		<i>Alectrurus tricolor</i>	VU
	<i>Pseudocolopteryx dinellianus</i>	Dinelli's Doradito		<i>Pseudocolopteryx dinelliana</i>	NT
	<i>Polystictus pectoralis</i>	Bearded Tachuri		<i>Polystictus pectoralis</i>	NT
Emberizidae	<i>Sporophila ruficollis</i>	Dark Throated Seedeater	Thraupidae	<i>Sporophila ruficollis</i>	NT
	<i>Sporophila zelichi</i>	Marsh Seedeater	Thraupidae	<i>Sporophila palustris</i>¹	EN
	<i>Sporophila cinnamomea</i>	Chestnut Seedeater	Thraupidae	<i>Sporophila cinnamomea</i>	VU
	<i>Sporophila hypochroma</i>	Rufous-rumped Seedeater	Thraupidae	<i>Sporophila hypochroma</i>	NT
	<i>Sporophila palustris</i>	Marsh Seedeater	Thraupidae	<i>Sporophila palustris</i> ¹	EN
Parulidae	<i>Cardellina canadensis</i>	Canada Warbler	Parulidae	<i>Cardellina canadensis</i>	LC
Icteridae	<i>Agelaius flavus</i>	Saffron-cowled Blackbird	Icteridae	<i>Xanthopsar flavus</i>	VU
	<i>Dolichonyx oryzivorus</i>	Bobolink		<i>Dolichonyx oryzivorus</i>	LC

¹ *Sporophila zelichi* and *Sporophila palustris* have been merged into *Sporophila palustris*

ANNEX 3

IMPLICATIONS OF ADOPTING THE ONLINE VERSION OF THE CATALOGUE OF FISHES: GENERA, SPECIES, REFERENCES. ESCHMEYER, W.N., R. FRICKE AND R. VAN DER LAAN (EDS). CALIFORNIA ACADEMY OF SCIENCES (VERSION 28 APRIL 2017). CHANGES IN NOMENCLATURE ARE SHOWN IN BOLD AND YELLOW.

Family	Current name in Appendix I and/or II	English name	Family name in Eschmeyer et al. (online 28.04.17)	Species name in Eschmeyer et al. (online 28.04.17)
Elasmobranchii				
Alopiidae	<i>Alopias pelagicus</i>	Pelagic Thresher Shark	Alopiidae	<i>Alopias pelagicus</i>
	<i>Alopias superciliosus</i>	Bigeye Thresher Shark		<i>Alopias superciliosus</i>
	<i>Alopias vulpinus</i>	Common Thresher Shark		<i>Alopias vulpinus</i>
Carcharhinidae	<i>Carcharhinus falciformis</i>	Silky Shark	Carcharhinidae	<i>Carcharhinus falciformis</i>
Cetorhinidae	<i>Cetorhinus maximus</i>	Basking Shark	Cetorhinidae	<i>Cetorhinus maximus</i>
Lamnidae	<i>Carcharodon carcharias</i>	Great White Shark, White Shark	Lamnidae	<i>Carcharodon carcharias</i>
	<i>Isurus oxyrinchus</i>	Shortfin Mako Shark		<i>Isurus oxyrinchus</i>
	<i>Isurus paucus</i>	Longfin Mako Shark		<i>Isurus paucus</i>
	<i>Lamna nasus</i>	Porbeagle		<i>Lamna nasus</i>
Mobulidae	<i>Manta alfredi</i>	Reef Manta Ray	Mobulidae	<i>Mobula alfredi</i>
	<i>Manta birostris</i>	Manta Ray		<i>Mobula birostris</i>
	<i>Mobula eregoodootenkee</i>	Pygmy Devil Ray		<i>Mobula kuhlii</i>
	<i>Mobula hypostoma</i>	Atlantic Devil Ray, Lesser Devil Ray		<i>Mobula hypostoma</i>
	<i>Mobula japonica</i>	Spinetail Mobula, Spinetail Devil Ray		<i>Mobula japonica</i>
	<i>Mobula kuhlii</i>	Shortfin Devil Ray		<i>Mobula kuhlii</i>
	<i>Mobula mobular</i>	Giant Devil Ray		<i>Mobula mobular</i>
	<i>Mobula munkiana</i>	Munk's Devil Ray		<i>Mobula munkiana</i>

Family	Current name in Appendix I and/or II	English name	Family name in Eschmeyer et al. (online 28.04.17)	Species name in Eschmeyer et al. (online 28.04.17)
	<i>Mobula rochebrunei</i>	Lesser Guinean Devil Ray		<i>Mobula hypostoma</i>
	<i>Mobula tarapacana</i>	Box Ray		<i>Mobula tarapacana</i>
	<i>Mobula thurstoni</i>	Bentfin Devil Ray		<i>Mobula thurstoni</i>
Pristidae	<i>Anoxypristis cuspidata</i>	Narrow Sawfish	Pristidae	<i>Anoxypristis cuspidata</i>
	<i>Pristis clavata</i>	Dwarf Sawfish		<i>Pristis clavata</i>
	<i>Pristis pectinata</i>	Smalltooth Sawfish		<i>Pristis pectinata</i>
	<i>Pristis pristis</i>	Largetooth Sawfish		<i>Pristis pristis</i>
	<i>Pristis zijsron</i>	Green Sawfish		<i>Pristis zijsron</i>
Rhincodontidae	<i>Rhincodon typus</i>	Whale Shark	Rhincodontidae	<i>Rhincodon typus</i>
Sphyrnidae	<i>Sphyrna lewini</i>	Scalloped Hammerhead Shark	Sphyrnidae	<i>Sphyrna lewini</i>
	<i>Sphyrna mokarran</i>	Great Hammerhead Shark		<i>Sphyrna mokarran</i>
Squalidae	<i>Squalus acanthias</i>	Spiny Dogfish	Squalidae	<i>Squalus acanthias</i>
Actinopterygii				
Acipenseridae	<i>Acipenser baerii</i> <i>baicalensis</i>	Siberian Sturgeon	Acipenseridae	<i>Acipenser baerii</i> ¹
	<i>Acipenser fulvescens</i>	Lake Sturgeon		<i>Acipenser fulvescens</i>
	<i>Acipenser gueldenstaedtii</i>	Russian Sturgeon		<i>Acipenser gueldenstaedtii</i>
	<i>Acipenser medirostris</i>	Green Sturgeon		<i>Acipenser medirostris</i>
	<i>Acipenser mikadoi</i>	Sakhalin Sturgeon		<i>Acipenser mikadoi</i>
	<i>Acipenser naccarii</i>	Adriatic Sturgeon		<i>Acipenser naccarii</i>
	<i>Acipenser nudiventris</i>	Ship Sturgeon		<i>Acipenser nudiventris</i>
	<i>Acipenser persicus</i>	Persian Sturgeon		<i>Acipenser persicus</i>
	<i>Acipenser ruthenus</i>	Sterlet		<i>Acipenser ruthenus</i>
	<i>Acipenser schrenckii</i>	Amur Sturgeon		<i>Acipenser schrenckii</i>

¹ Eschmeyer 2017 does not recognize the subspecies

Family	Current name in Appendix I and/or II	English name	Family name in Eschmeyer et al. (online 28.04.17)	Species name in Eschmeyer et al. (online 28.04.17)
	<i>Acipenser sinensis</i>	Chinese Sturgeon		<i>Acipenser sinensis</i>
	<i>Acipenser stellatus</i>	Stellate Sturgeon		<i>Acipenser stellatus</i>
	<i>Acipenser sturio</i>	Common Sturgeon		<i>Acipenser sturio</i>
	<i>Huso dauricus</i>	Kaluga Sturgeon		<i>Acipenser dauricus</i>
	<i>Huso huso</i>	Giant Sturgeon, Beluga		<i>Huso huso</i>
	<i>Pseudoscaphirhynchus fedtschenkoi</i>	Syr-Dar Shovelnose		<i>Pseudoscaphirhynchus fedtschenkoi</i>
	<i>Pseudoscaphirhynchus hermanni</i>	Small Amu-Dar Shovelnose		<i>Pseudoscaphirhynchus hermanni</i>
	<i>Pseudoscaphirhynchus kaufmanni</i>	Large Amu-Dar Shovelnose		<i>Pseudoscaphirhynchus kaufmanni</i>
Anguillidae	<i>Anguilla anguilla</i>	European Eel	Anguillidae	<i>Anguilla anguilla</i>
Polyodontidae	<i>Psephurus gladius</i>	Chinese Paddlefish	Polyodontidae	<i>Psephurus gladius</i>
Schilbeidae	<i>Pangasianodon gigas</i>	Giant Catfish	Schilbeidae	<i>Pangasianodon gigas</i>

ANNEX 4

DRAFT RESOLUTION

TAXONOMY AND NOMENCLATURE

NB: Proposed new text to the Resolution that has been consolidated in Document 21.2.2 Annex 2 is underlined. Text to be deleted is ~~crossed out~~.

Recalling that with Recommendation 6.1, Recommendation 9.4, Resolution 10.13, and Resolution 11.19, the Conference of the Parties adopted standard references to be recognized and used as the bases on which the CMS Appendices and amendments thereto should be prepared;

Recalling Resolution 10.13 on Standardized Nomenclature of Birds Listed on the CMS Appendices that requests the Chair of the Scientific Council to liaise with the Chairs of the Scientific Advisory Bodies of the Biodiversity-related Conventions, the Secretariats of relevant MEAs and relevant international organizations, including IUCN, BirdLife International, Wetlands International and UNEP-WCMC, with the aim of evaluating the possible adoption of a single nomenclature and taxonomy for birds, and to inform the Scientific Council at its eighteenth meeting with a view to adopting an appropriate Resolution at COP11;

Recalling that with Resolution 3.1 (Geneva, 1991) regarding listing of species in the Appendices of the Convention, the Conference of the Parties agreed that any further additions to the Appendices of the Convention should be limited to species or lower taxa and that the migratory species covered by higher taxa listings already in Appendix II need only be identified when AGREEMENTs are being prepared;

Noting that biological taxonomy and nomenclature are dynamic;

Aware that international efforts to take coherent action to conserve and sustainably use biodiversity at the species level can be significantly hampered if there is no common understanding of which animals or plants are included under a particular species name and can present particular challenges for activities such as the implementation of conventions which have legal implications;

Recognizing that the 4th meeting of the Chairs of the Scientific Advisory Bodies of Biodiversity-related Conventions (CSAB, Gland, Switzerland 13 February 2011) expressed its support for the idea of moving towards harmonization of nomenclature and taxonomy in lists of species used by the biodiversity-related conventions, and praised the harmonization process undertaken by CITES and CMS;

Acknowledging that in order to strengthen the global effort to meet the Aichi Biodiversity Targets in order to reduce the rate of biodiversity loss by 2020, it would be sensible to try to ensure greater harmonization between biodiversity-related multilateral environmental agreements in the field of taxonomy and nomenclature;

Further noting that the case for such harmonization is made more compelling by the fact that of the 124 CMS Parties, only one is not also a member of CITES;

Acknowledging that the harmonization of nomenclature can lead to a more integrated process, reduction of duplication and greater sharing of information between biodiversity-related Multilateral Environmental Agreements (MEAs);

Recalling that this objective was noted by the 6th Meeting of the Liaison Group of the Biodiversity-related Conventions (Bonn, May 2008), and was thereby included in the

CITES/CMS List of Joint Activities adopted by the 34th Meeting of the CMS Standing Committee (Rome, November 2008); and the CMS-CITES Joint Work Programme 2012-2014 adopted at the 38th meeting of the CMS Standing Committee (Bergen, November 2011);

Further aware that a harmonization of bird taxonomy and nomenclature among MEAs and other partners, such as CMS, CITES, Ramsar, IUCN, BirdLife International, Wetlands International and UNEP-WCMC, can improve synergies benefitting migratory species conservation and better implementation of CMS Family instruments;

Recognizing that the Chairs of the Scientific Advisory Bodies of the Biodiversity-related Conventions (CSAB) have repeatedly expressed their support for the idea of moving towards harmonization of nomenclature and taxonomy in the lists of species that they use, and requested stronger cooperation among MEAs towards that goal;

Taking note of the report of the Ad Hoc Meeting on Harmonization of Bird Taxonomy which took place in Formia (Italy) on 8 October 2013 (UNEP/CMS/ScC18/Inf.9.1) and *thanking* the Chair of the Scientific Council for convening that Meeting;

Taking note also of the report of the CITES Animals Committee that took place in Veracruz (México) from 28 April to 3 May;

Stressing that notwithstanding the adoption, for practical reasons, of standard nomenclatural references at the species level, biological diversity at all taxonomic levels should be valued, conserved and used sustainably;

Taking note of the recommendations of the 15th meeting of the CMS Scientific Council (Rome, 27-28 November 2008) concerning revision of the reference nomenclature for terrestrial and aquatic mammalian species listed in CMS Appendices;

Noting the recommendation provided by the CMS Scientific Council at its 18th Meeting (Bonn, 1-3 July 2014), on a standard nomenclature reference for non-passerine birds;

Noting that regarding albatrosses and petrels, COP10 adopted the taxonomy used by ACAP as the Convention's standard nomenclatural reference, and that ACAP takes account of the most recent taxonomic information on species of albatrosses and petrels;

Acknowledging that the adoption of a new reference may imply cases of synonymy, species aggregation (lumping) and/or splitting of species, and that CMS has agreed rules on how to act in such cases and their consequent reflection in the Appendices;

Noting the advice of the CMS Scientific Council at its 17th Meeting (Bergen, November 2011);

Emphasizing that stability over time in the taxonomy and nomenclature of species listed under CMS is essential to ensure legal security for the implementation of the Convention;

Recognizing that the taxonomy used in the Appendices to the Convention will be most useful to the Parties if standardized by nomenclatural references;

*The Conference of the Parties to the
Convention on the Conservation of Migratory Species of Wild Animals*

1. *Adopts* the list of standard references ¹ included in Annex 1 to be recognized and used as the bases on which the CMS Appendices and amendments thereto, are prepared;

¹ As of yet there has been no need for a standard taxonomic reference for insects or reptiles (except marine turtles).

1. *bis* Agrees to refer to the online version of Eschmeyer, W. N., R. Fricke, and R. van der Laan (eds.), Catalog of Fishes: Genera, Species, References (<http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain>) as reference for fish at the time of listing new species on the Appendices of CMS and Instructs the Secretariat to preserve a hard-copy excerpt from the online reference as the standard reference for the newly listed species;
1. *ter* Instructs the Scientific Council to review the online version of the fish reference for the species listed on the Appendices at its last meeting before each meeting of the Conference of Parties and make recommendations as to whether the name of any listed species should be updated;
1. *quarter* Agrees to follow a conservative approach in the use of the online reference to update names of listed species, waiting for a new taxonomy to be confirmed by the majority of scientists and other legal frameworks such as CITES before implementing any change;
1. *quinqüiens* Agrees to adopt the same approach for other taxonomic groups in the event that online versions of standard references will be adopted for those groups;
2. *Reaffirms* the rules adopted by the Convention for the treatment of cases of synonymy, species splitting and species aggregation (lumping) as a result of a change of standard nomenclatural reference, as follows:
- Synonymy: corrections can be made automatically as there is no change of status for any listed population;
 - Splitting: when a listed taxon is split into two or more, each of the resulting taxa retains the listing status of the former aggregate taxon; and
 - Aggregation (lumping): if a taxon listed in either Appendix I or Appendix II of the Convention is merged with one or more unlisted taxa, under its name or that of one of the unlisted taxa, the entire aggregate taxon will be listed in the Appendix that included the originally listed, narrower taxon in all cases where the unlisted entity thus added has the same conservation status as, or a worse one than, that of the previously listed taxon. In all other cases, a taxonomic or geographical restriction will be introduced, pending consideration by the Scientific Council and the Conference of the Parties of extended listing proposals;
3. *Urges* other MEAs to adopt the same standard taxonomic reference for passerine birds; and
4. *Repeals*
- a) Recommendation 6.1, *Standardized Nomenclature for the CMS Appendices*;
 - b) Recommendation, 9.4, *Standardized Nomenclature for the CMS Appendices*;
 - c) Resolution 10.13, *Standardized Nomenclature of Birds Listed on the CMS Appendices*; and
 - d) Resolution 11.19, *The Taxonomy and Nomenclature of Birds Listed in the Appendices*.

Annex 1 to the Resolution

**LIST OF STANDARD REFERENCES ADOPTED BY
THE CONFERENCE OF THE PARTIES**

Mammals

Marine mammals:

Perrin W.F., Wursig B. and Thewissen J.G.M. (Editors), (2009), Encyclopaedia of Marine Mammals, Second edition. Academic Press as the standard nomenclatural reference for Marine Mammals as recommended by the 15th meeting of the Scientific Council;

Terrestrial mammals:

Wilson, D. E. & Reeder, D. M. (ed.) (2005): Mammal Species of the World. A Taxonomic and Geographic Reference. Third edition, John Hopkins University Press as the standard nomenclatural reference for terrestrial mammals, as recommended by the 14th meeting of the Scientific Council;

Birds

Non-passerine species:

Handbook of the Birds of the World/BirdLife International Illustrated Checklist of the Birds of the World, Volume 1: Non-passerines, by Josep del Hoyo, Nigel J. Collar, David A. Christie, Andrew Elliot and Lincoln D.C. Fishpool (2014);

Passerine species:

~~For taxonomy and nomenclature at the level of orders and families:~~

Handbook of the Birds of the World/BirdLife International Illustrated Checklist of the Birds of the World, Volume 2: Passerines, by Josep del Hoyo and Nigel J. Collar (2016);

~~Morony, J.J., Bock, W.J. and Farrand, J. (1975). Reference List of the Birds of the World. Department of Ornithology, American Museum of Natural History, New York, New York.~~

~~For taxonomy and nomenclature at the level of genera and species:~~

~~Sibley, C.G. and Monroe, B.L. (1990). Distribution and taxonomy of birds of the world. Yale University Press, New Haven.~~

~~Sibley, C.G. and Monroe, B.L. (1993). A supplement to distribution and taxonomy of birds of the world. Yale University Press, New Haven.~~

~~Albatrosses and large petrels~~

~~The taxonomy used by ACAP.~~

Marine Turtles

Eckert, K.L., Bjorndal, K.A., Abreu-Grobois, F.A. and Donnelly, M. (Eds) (1999). Research and management techniques for the conservation of sea turtles. IUCN/SSC Marine Turtle Specialist Group Publication No. 4.

Fishes

Online version of the Catalogue of Fishes: Genera, Species, References. Eschmeyer, W.N., R. Fricke and R. van der Laan (eds). California Academy of Sciences (continuously updated)

~~Eschmeyer, W.N. (1990). Catalogue of the Genera of Recent Fishes. California Academy of Sciences, San Francisco, California.~~

DRAFT DECISION

Text as presented in Document 21.2.2 Annex 3.

Directed to the Secretariat

12.AA ~~Instructs~~ The Secretariat, in consultation with the Scientific Council and the Depositary, shall adapt the CMS Appendices according to the new bird reference adopted and the rules outlined ~~above~~ Resolution 12.X on Taxonomy and Nomenclature.