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SPECIES**

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Agenda Item 21.2.2

CONSOLIDATION OF RESOLUTIONS: TAXONOMY AND NOMENCLATURE

(Prepared by the Secretariat on behalf of the Standing Committee)

Summary:

This document consolidates four existing Resolutions and Recommendations on taxonomy and nomenclature and converts one instruction to a Decision.

This document should be read in conjunction with UNEP/CMS/COP12/Doc.25.2, which proposes revisions to the resolution.

Rev.1 corrects omissions in Annexes 2 and 3.

CONSOLIDATION OF RESOLUTIONS: TAXONOMY AND NOMENCLATURE

Background

1. Four Resolutions and Recommendations provide advice to the Parties relating to taxonomy and nomenclature:
 - 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](#);
2. Annex 1 presents a draft consolidated resolution that includes, in the left-hand column, the original text and preamble of the Resolutions and Recommendations being consolidated. The right-hand column indicates the source of the text and a comment regarding any proposed change.
3. Annex 2 contains the clean version of the draft consolidated Resolution, taking into account the comments in Annex 1.
4. To add clarity and make the Resolution on taxonomy and nomenclature more enduring, the Secretariat has placed the list of specific taxonomic and nomenclature references in an annex to the resolution. Instructions about how to use the references are retained in the operative paragraphs.
5. Annex 3 contains draft Decisions, based on provisions of the existing Resolutions and Recommendations being consolidated, that include tasks that have not been completed and which meet the Convention's new definition of "Decision" included in Resolution 11.6.

Recommended Actions:

6. The Conference of the Parties is recommended to
 - a) adopt the consolidated resolution included in Annex 2; and
 - b) adopt the Decision included in Annex 3.

ANNEX 1

DRAFT CONSOLIDATED RESOLUTION: TAXONOMY AND NOMENCLATURE

NB: Proposed new text is underlined. Text to be deleted is ~~crossed-out~~.

Text from Existing Resolutions and Recommendations	Comments
<u>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;</u>	New text to reflect consolidation
Recalling that with Recommendation 6.1 (Cape Town, 1999) the Conference of the Parties to CMS adopted standard references to be recognized and used as the bases on which the CMS Appendices and amendments thereto, should be prepared;	Recommendation 9.4 Repeal; redundant
Recalling that with Recommendation 6.1 the Conference of the Parties adopted standard references to be recognized and used as the basis on which the CMS Appendices, and amendments thereto, should be prepared;	Resolution 10.13 Repeal; redundant
<u>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;</u>	Resolution 11.19 Retain (could be repealed as out of date)
<u>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;</u>	Recommendation 6.1 Retain
<u>Noting that biological taxonomy and nomenclature are dynamic;</u>	Resolution 10.13 Retain
Noting that biological nomenclature is dynamic;	Recommendation 9.4 Repeal; redundant
Noting that biological nomenclature is dynamic; and	Recommendation 6.1 Repeal; redundant
<u>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;</u>	Resolution 11.19 Retain

Text from Existing Resolutions and Recommendations	Comments
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;	Resolution 10.13 Repeal; redundant
<i>Recognizing</i> that the 4 th 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;	Resolution 10.13 Retain
<i>Acknowledging</i> 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;	Resolution 10.13 Retain
<i>Acknowledging</i> that the 14th Meeting of the Conference of the Parties to the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) (The Hague, June 2007) noted that in order to strengthen the global effort to meet the World Summit on Sustainable Development target of significantly reducing the rate of biodiversity loss by 2010, it would be sensible to try to ensure greater harmonization between biodiversity-related multilateral environmental agreements in the field of taxonomy and nomenclature, considering that biodiversity-related multilateral environmental agreements operate on the basis of some stability in the use of names, notably because implementing legislation which uses these names is often not easily changed;	Recommendation 9.4 Repeal; redundant and out of date
<i>Further noting</i> that the case for such harmonization is made more compelling by the fact that of the 116 <u>124</u> CMS Parties, only <u>one</u> is four are not also <u>a</u> members of CITES;	Resolution 10.13 Retain with updated text
<i>Further noting</i> that the case for such harmonization is made more compelling by the fact that of the 110 CMS Parties, only 4 are not also members of CITES;	Recommendation 9.4 Repeal; redundant
<i>Acknowledging</i> 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);	Resolution 10.13 Retain
<i>Recalling</i> that this objective was noted by the 6 th 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 34 th Meeting of the CMS Standing Committee (Rome, November 2008); and the CMS-CITES Joint Work Programme 2012-2014 adopted at the 38 th meeting of the CMS Standing Committee (Bergen, November 2011);	Resolution 10.13 Retain
<i>Further aware</i> that a harmonization of bird taxonomy and nomenclature among MEAs and other partners, such as CMS, CITES,	Resolution 11.19

Text from Existing Resolutions and Recommendations	Comments
Ramsar, IUCN, BirdLife International, Wetlands International and UNEP-WCMC, can improve synergies benefitting migratory species conservation and better implementation of CMS Family instruments;	Retain
<i>Recognizing</i> 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;	Resolution 11.19 Retain
<i>Noting also</i> that this objective was endorsed at the 2nd meeting of Chairs of the Scientific Advisory Bodies of Biodiversity-related Conventions (CSAB, Bonn, May 2008) and 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;	Recommendation 9.4 Repeal; out of date
<i>Taking note</i> 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 <i>thanking</i> the Chair of the Scientific Council for convening that Meeting;	Resolution 11.19 Retain
<i>Taking note</i> also of the report of the CITES Animals Committee that took place in Veracruz (México) from 28 April to 3 May;	Resolution 11.19 Retain
<i>Stressing</i> 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;	Resolution 10.13 Retain
<i>Taking note</i> of the recommendations of the 15 th 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; and	Resolution 9.4 Retain
<i>Noting</i> 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, and also noting that the taxonomy of albatrosses and petrels in this reference is consistent with that adopted by ACAP;	Resolution 11.19 Retain as modified; proposed text to delete is redundant in light of the next paragraph.
<i>Noting</i> 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;	Resolution 11.19 Retain
<i>Noting</i> that the taxonomy used by the Agreement on the Conservation of Albatrosses and Petrels (ACAP) takes account of the most recent taxonomic information on species of albatrosses and large petrels;	Resolution 10.13 Repeal; out of date
<i>Noting</i> that Schedule 1 of the Agreement on the Conservation of Albatrosses and Petrels (ACAP) takes account of the most recent taxonomic information on species of albatrosses and large petrels;	Recommendation 9.4 Repeal; out of date
<i>Considering</i> that the adoption of a new reference may imply cases of synonymy, "lumping" and/or splitting of species, and that rules have to	Resolution 10.13

Text from Existing Resolutions and Recommendations	Comments
be agreed on how to act in such cases and their consequent reflection in the CMS Appendices, and that to date there has been no rule in effect for cases of lumping (aggregation); and	Repeal
Acknowledging that the adoption of a new reference for birds 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; and	Resolution 11.19 Retain as modified
Noting the advice of the CMS Scientific Council at its 17 th Meeting (Bergen, November 2011);	Resolution 10.13 Retain
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; and	Resolution 11.19 Retain
Recognizing that the taxonomy used in the Appendices to the Convention will be most useful to the Parties if standardized by nomenclatural references;	Recommendation 6.1 Retain
<i>The Conference of the Parties to the Convention on the Conservation of Migratory Species of Wild Animals</i>	
1. Recommends that Adopts the following list of standard references ¹ included in the Annex, to be recognized and used as the bases on which the CMS Appendices and amendments thereto, are prepared;	Recommendation 6.1 Retain with new text to reflect consolidation
3. Requests the Scientific Council to consider the implications of adopting in future as a standard reference for Passerine bird taxonomy and nomenclature the Handbook of the Birds of the World/BirdLife International Illustrated Checklist of the Birds of the World, Volume 2: Passerines, due to be published in 2016;	Resolution 11.19 Repeal; work completed
3. Requests the Scientific Council to consider the implications of adopting Dickinson, E.C. (ed.)(2003): The Howard and Moore Complete Checklist of the Birds of the World. Revised and enlarged 3 rd Edition. London (Christopher Helm) together with the author's Corrigenda 4 (02.06.2005) to Howard & Moore Edition 3 (2003), as the Convention's standard nomenclatural reference for birds at its 16 th meeting and report to the 10 th meeting of the Conference of the Parties;	Recommendation 9.4 Repeal; work completed
4. Further requests the Scientific Council to consider the implications of adopting the taxonomic list approved for inclusion on Annex I of ACAP as the Convention's standard nomenclatural reference for albatrosses and large petrels, and consider other relevant CMS Agreements in the process of harmonization of taxonomic and nomenclatural references;	Recommendation 9.4 Repeal; work completed
4.2. 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	Resolution 11.19 Retain. Although Resolution 11.19 applies to birds, these general rules

¹ As yet there has been no need for a standard taxonomic reference for insects or reptiles.

Text from Existing Resolutions and Recommendations	Comments
<p>change of status for any listed population;</p> <ul style="list-style-type: none"> • 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; 	<p>are more broadly applicable.</p>
<p>2. Adopts the rule set out below for aggregation cases to take account of the merged species conservation status and the status of the merged component species:</p> <p><i>If, as a result of a change of standard nomenclatural reference adopted by the Conference of the Parties, 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 possibly adequate extended listing proposals.</i></p>	<p>Resolution 10.13 Repeal; redundant</p>
<p>5. Instructs the Secretariat, in consultation with the Scientific Council and the Depository, to adapt the CMS Appendices according to the new bird reference adopted and the rules outlined above;</p>	<p>Resolution 11.19 Repeal; convert to Decision because work has not been completed</p>
<p>3. 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 18th meeting with a view to adopting an appropriate Resolution at COP11;</p>	<p>Resolution 10.13 Repeal; work completed</p>
<p>6. Further instructs the Secretariat to transmit this Resolution to the secretariats of CITES and the Ramsar Convention for consideration by</p>	<p>Resolution 11.19</p>

Text from Existing Resolutions and Recommendations	Comments
<p>their scientific bodies, and to continue to liaise with the avian CMS instruments and MEA Secretariats with a view to strengthening harmonization of taxonomic references; and</p>	<p>Repeal; work completed</p>
<p>7.3. Urges other MEAs to adopt the same standard taxonomic references for non-Passerine species of birds.</p>	<p>Resolution 11.19</p>
<p>2. Further recommends that Appendices I and II are amended in the following way to reflect the taxonomy and nomenclature of the standard references:</p> <p><i>Appendix I</i> <i>Mammals</i></p> <ol style="list-style-type: none"> 1. <i>Eubalaena glacialis</i> is now <i>Balaena glacialis glacialis</i>. 2. <i>Eubalaena australis</i> is now <i>Balaena glacialis australis</i>. 3. <i>Lutra felina</i> is now <i>Lontra felina</i>. 4. <i>Lutra provocax</i> is now <i>Lontra provocax</i>. 5. <i>Panthera uncia</i> is now <i>Uncia uncia</i>. 6. The former order Pinnipedia is now included in the order Carnivora, hence the family Phocidae is placed in Carnivora. <p><i>Birds</i></p> <ol style="list-style-type: none"> 7. <i>Pterodroma sandwichensis</i> is added, as it is recognised by Sibley & Monroe as a species separate from <i>Pterodroma phaeopygia</i>. This assumes that <i>Pterodroma phaeopygia</i> was originally listed in its broad sense (<i>sensu lato</i>). 8. <i>Phoenicoparrus andinus</i> is now <i>Phoenicopterus andinus</i>. 9. <i>Phoenicoparrus jamesi</i> is now <i>Phoenicopterus jamesi</i>. 10. <i>Aquila adalberti</i> is added, as it is recognised by Sibley & Monroe as a species separate from <i>Aquila heliaca</i>. This assumes that <i>Aquila heliaca</i> was originally listed in its broad sense (<i>sensu lato</i>). 11. <i>Chettusia gregaria</i> is now <i>Vanellus gregarius</i>. 12. <i>Acrocephalus paludicola</i> is now placed in the family Muscicapidae, as the former family Sylviidae is now treated as a subfamily of Muscicapidae. <p><i>Appendix II</i></p> <p><i>Mammals</i></p> <ol style="list-style-type: none"> 13. <i>Platanista gangetica</i> is now <i>Platanista gangetica gangetica</i>. 14. The former order Pinnipedia is now included in the order Carnivora, hence the family Phocidae is placed in Carnivora. <p><i>Birds</i></p> <ol style="list-style-type: none"> 15. <i>Diomedea chlororhynchos</i> is now <i>Diomedea chlororhynchos</i>. 16. <i>Phalacrocorax pygmaeus</i> is now <i>Phalacrocorax pygmeus</i>. 17. <i>Anthropoides virgo</i> is now <i>Grus virgo</i>, and is hence included in <i>Grus</i> spp. 18. The former family Phalaropodidae is deleted, as it is now included 	<p>Retain as modified</p> <p>Recommendation 6.1</p> <p>Repeal; work completed</p>

Text from Existing Resolutions and Recommendations	Comments
<p>in the family Scolopacidae. 19. <i>Sterna</i> spp. and <i>Chlidonias</i> spp. are now placed in the family Laridae, as the former family Sternidae is now treated as a subfamily of Laridae. 20. <i>Acrocephalus paludicola</i> is deleted, as it is now placed in the family Muscicapidae (<i>sensu lato</i>), and all species in Muscicapidae are already listed.</p>	
<p>3. Further recommends that if the Conference of the Parties decides to place the proposed <i>Xanthopsar flavus</i> and <i>Procellaria conspicillata</i> on the Appendices, the names <i>Agelaius flavus</i> and <i>Procellaria aequinoctialis conspicillata</i> should be used, respectively</p>	<p>Recommendation 6.1 Repeal; work completed</p>
<p>5. Requests also the Secretariat to raise, at the next meeting of the Chairs of the scientific advisory bodies of biodiversity-related conventions (CSAB), the feasibility of establishing a nomenclature and taxonomy panel that could be convened periodically to review the relevant technical literature in order to work towards the harmonization of species nomenclature used by the biodiversity-related convention; and</p>	<p>Recommendation 9.4 Repeal; work completed</p>
<p>6. Instructs the Secretariat to transmit this Resolution to the CITES Secretariat in order for it to be considered by the scientific bodies of that Convention.</p>	<p>Recommendation 9.4 Repeal; work completed</p>
<p>4. Instructs the Secretariat to transmit this Resolution to the CITES Secretariat for its consideration by the scientific bodies of that Convention.</p>	<p>Resolution 10.13 Repeal; work completed</p>
<p><u>4. Repeals</u></p> <ul style="list-style-type: none"> a) <u>Recommendation 6.1, Standardized Nomenclature for the CMS Appendices;</u> b) <u>Recommendation, 9.4, Standardized Nomenclature for the CMS Appendices;</u> c) <u>Resolution 10.13, Standardized Nomenclature of Birds Listed on the CMS Appendices; and</u> d) <u>Resolution 11.19, The Taxonomy and Nomenclature of Birds Listed in the Appendices.</u> 	<p>New text to reflect consolidation</p>
<p>Annex List of standard references adopted by the Conference of the Parties</p>	<p>New Annex</p>
<p><i>Mammals</i></p> <p>For the mammalian orders Cetacea and Sirenia, and the families Phocidae, Odobenidae and Otariidae of the order Carnivora:</p> <ul style="list-style-type: none"> a) Rice, D.W. (1998). Marine mammals of the world. Systematics and distribution. Special Publication of the Society for Marine Mammalogy 4, 231 pp. 	<p>Recommendation 6.1 Repeal; superseded by Recommendation 9.4</p>

Text from Existing Resolutions and Recommendations	Comments
<p>For all other mammals: b) Wilson, D.E. and Reeder, D.M. (1993). Mammal species of the world. A taxonomic and geographic reference. 2nd ed. Smithsonian Institution Press, Washington, D.C.</p>	
<p>1. Adopts 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;</p>	<p>Recommendation 9.4</p>
<p>2. Adopts 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;</p>	<p>Recommendation 9.4</p>
<p><u>Birds</u></p>	
<p>1. Adopts the reference recommended by the 18th Meeting of the CMS Scientific Council as the CMS standard reference for bird taxonomy and nomenclature for <u>Non-Passerine</u> 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);</p>	<p>Resolution 11.19 Retain</p>
<p>2. Confirms that for Passerine <u>species</u> birds, the standard references for taxonomy and nomenclature remain for the time being as outlined in Resolution 6.1, namely: For taxonomy and nomenclature at the level of orders and families: 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.</p>	<p>Resolution 11.19 Retain</p>
<p><u>Albatrosses and large petrels</u></p>	<p>Resolution 10.13</p>
<p>1. Adopts the taxonomy used by ACAP as the Convention's standard nomenclatural reference for albatrosses and large petrels;</p>	<p>Retain</p>
<p>For taxonomy and nomenclature at the level of orders and families: c) 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.</p>	<p>Recommendation 6.1 Repeal; redundant</p>

Text from Existing Resolutions and Recommendations	Comments
<p>For taxonomy and nomenclature at the level of genera and species:</p> <p>d) Sibley, C.G. and Monroe, B.L. (1990). Distribution and taxonomy of birds of the world. Yale University Press, New Haven.</p> <p>e) Sibley, C.G. and Monroe, B.L. (1993). A supplement to Distribution and taxonomy of birds of the world. Yale University Press, New Haven</p>	
<i>Marine Turtles</i>	
<p>ƒ) Eckert, K.L., Bjørndal, 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.</p>	Recommendation 6.1
<i>Fishes</i>	
<p>g) Eschmeyer, W.N. (1990). Catalogue of the Genera of Recent Fishes. California Academy of Sciences, San Francisco, California.</p>	Recommendation 6.1

DRAFT RESOLUTION

TAXONOMY AND NOMENCLATURE

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, and

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 following list of standard references¹ included in the Annex, to be recognized and used as the bases on which the CMS Appendices and amendments thereto, are prepared;
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; and
3. *Urges* other MEAs to adopt the same standard taxonomic references.
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*.

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

ANNEX 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:

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

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

ANNEX 3

DRAFT DECISION

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~~ in Resolution 12.X on taxonomy and nomenclature.