CMS SCIENTIFIC COUNCIL ACTIVITY PLANNING MEETING

Bonn, Germany, 13 June 2009

UNEP/CMS/ScCAP/Doc.8 Agenda Item 6.4

THE TAXONOMY AND NOMENCLATURE OF BIRDS LISTED ON THE APPENDICES OF THE CMS

(Prepared by the CMS Secretariat)

Introduction

Collaboration between CMS and CITES has recently brought about significant progress on the harmonisation of taxa nomenclature among biodiversity-related multilateral environmental agreements.

This joint effort was initiated in early 2000, and aimed to compare the species list on the Appendices to both Conventions to ensure a common interpretation of their scientific names. The objective of this exercise was recently 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 (BLG, Bonn, May 2008) on the basis of a report from the CMS Secretariat.

Within this process of harmonisation of species nomenclature, the CMS Scientific Council has been tasked to consider potential implications deriving from an alignment of the CMS references to those of CITES.

At the 14th Meeting of the CMS Scientific Council, Dr. Ebenhard, the Councillor for Sweden, presented an analysis of taxonomic and nomenclatural changes in the CMS Appendices related to the possible adoption of the reference for mammals adopted by CITES: Wilson, D. E. & Reeder, D. M. (ed.) (2005): *Mammal Species of the World. A Taxonomic and Geographic Reference*. Third edition, Vol. 1-2, xxxv + 2142 pp. Baltimore (John Hopkins University Press).

At its 15th session (Rome, November 2008) the CMS Scientific Council concluded that Wilson & Reeder (2005), should be used as standard nomenclature for CMS terrestrial mammals while Perrin W.F., Wursig B. and Thewissen J.G.M. (Editors), (2009), Encyclopaedia of Marine Mammals, Second edition. Academic Press should be considered for marine mammals.

The Council also recommended discussing the question of harmonisation of bird nomenclature between CMS and CITES intersessionally with a view to making a proposal to be reported to the 10^{th} meeting of the Conference of the Parties.

These proposals were compiled and formulated in draft Recommendation 9.4 which was

submitted and subsequently adopted by the Ninth Meeting of the Conference of the Parties.

Current situation

In accordance with Recommendation 9.4, the CMS Scientific Council is now asked to assess possible changes arising from adopting the CITES reference for all bird species (see Table 1 below).

Explanations for the selection of the standard reference for birds accepted by CITES can be found in the documents CITES CoP14 Doc. 8.5 (http://www.cites.org/eng/cop/14/doc/E14-08-5.pdf), NC2005 Summary Record (http://www.cites.org/eng/com/NC/2005/E-NC2005-Sum_record.pdf) and NC2006 (fauna) Doc. 4.1 (http://www.cites.org/common/com/NC/2006/E-NC2006-Fa-04-01.pdf).

The Council is also requested to take into account the work of other relevant CMS Agreements in the process of harmonisation of nomenclatural references. Recommendation 9.4 specifically requests the Council to consider the most recent taxonomic information on species of albatrosses and large petrels adopted by ACAP and assess possible consequences deriving from the adoption of the standard nomenclature for the species listed on Annex I of ACAP.

Table 1. Current and proposed nomenclatural references

Current nomenclatural references	Proposed nomenclatural references
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. [for taxonomy and nomenclature at the level of orders and families].	Dickinson, E.C. (ed.)(2003): The Howard and Moore Complete Checklist of the Birds of the World. Revised and enlarged 3rd Edition. 1039 pp. London (Christopher Helm) together with Dickinson, E.C. (2005): Corrigenda 4 (02.06.2005) to Howard & Moore Edition 3 (2003) for all bird species.
Sibley, C.G. and Monroe, B.L. (1990) Distribution and taxonomy of birds of the world. Yale University Press, New Haven; and Sibley, C.G. and Monroe, B.L. (1993) A supplement to Distribution and taxonomy of birds of the world. Yale University Press, New Haven. [for taxonomy and nomenclature at the level of genera and species].	Taxonomic list approved for inclusion on Annex I of ACAP as the Convention's standard nomenclatural reference for albatrosses and large petrels.

With a view to supporting the Scientific Council work, the Secretariat has conducted a preliminary analysis of the nomenclatural treatment of bird species included in the CMS Appendices according to the new taxonomic references.

The format of the analysis made by Dr. Ebenhard on nomenclatural changes for mammals has been used as a basis for identifying changes introduced in Dickinson (2003 plus Corrigenda 2005).

Annex 1 includes two tables, which present an analysis of the consequences of choosing the new standard nomenclature for bird species included in CMS Appendix I and II respectively. The first

column gives the taxonomic treatment and nomenclature of birds on the current appendices, with notes on particular populations listed, and on taxonomic/nomenclatural changes. Species listed in this column are only those for which there is a nomenclatural change according to the new reference.

The second column points out the taxonomic reference now in use, with indications of non-adherence. The third column provides the taxonomic treatment and nomenclature according to Dickinson (2003 plus Corrigenda 2005) for those cases where there is a new treatment or name.

In general, the analysis identifies a certain number of taxonomic and nomenclatural changes between the current reference for bird species and in Dickinson (2003 plus Corrigenda 2005).

In the case of species listed on the CMS Appendices as individual entities, both tables present two options with related notes.

Option 1 is to accept Dickinson (2003 plus Corrigenda 2005) as the new standard nomenclature for birds on the CMS Appendices. Column Four of the tables states suggested actions in response to this option.

Option 2 is to keep the present standard nomenclature, and include notes aimed to clarify correspondence in Dickinson (2003 plus Corrigenda 2005). Column Five of the tables offers actions proposed to follow option 2.

In the case of entire families listed on CMS Appendix II, the second table presents an assessment of treatment according to both Sibley & Monroe and Dickinson (2003 plus Corrigenda 2005) for each species included in these families. The analysis covers all families which are listed on the CMS Appendices with the exception of "Muscicapidae".

Annex 2 presents a comparison of taxonomic and nomenclature treatment of families and orders according to the two current references (Morony et al and Sibley & Monroe) and the suggested one, i.e. Dickinson (2003 plus Corrigenda 2005).

Annex 3 provides a comparison of taxonomic and nomenclatural treatment for all albatrosses and petrels included in the CMS Appendices, among Dickinson (2003 plus Corrigenda 2005) and the current references adopted by CMS and ACAP.

Actions requested:

Participants are invited to:

a. Consider the outputs (Annexes 1, 2 and 3) of the preliminary analysis of nomenclature of CMS bird species comprising the implications of adopting the new proposed references and discuss further action.

Annex 1 Appendix I: Taxonomic treatment and nomenclature for bird species and options for changes

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order /family (with notes on non-adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
PROCELLARIIFORMES		1	1	
Diomedeidae				
Diomedea albatrus	Sibley & Monroe 1993 (for species)	Phoebastria albatrus	Change Diomedea albatrus into Phoebastria albatrus Add note: "Formerly listed as Diomedea albatrus"	Add note: "Sometimes listed as Phoebastria albatrus"
Diomedea amsterdamensis	Sibley & Monroe 1993 (for species)	Diomedea exulans amsterdamensis	Delete Diomedea amsterdamensis Add note to Diomedea exulans: "This includes Diomedea exulans amsterdamensis formerly listed as Diomedea amsterdamensis"	Add note: "Sometimes listed as Diomedea exulans amsterdamensis"
Procellariidae				
Pterodroma sandwichensis Formerly included in Pterodroma phaeopygia (s.l.)	?	Pterodroma phaeopygia sandwichensis	Delete Pterodroma.sandwichensis and Change Pterodroma phaeopygia into Pterodroma phaeopygia (s.l.)	Add note: "Sometimes listed as Pterodroma phaeopygia sandwichensis"
Pterodroma phaeopygia	?	Pterodroma phaeopygia phaeopygia	Add note: "This includes Pterodroma phaeopygia sandwichensis and Pterodroma phaeopygia phaeopygia formerly listed as Pterodroma phaeopygia and Pterodroma sandwichensis respectively"	Add note: "Sometimes listed as Pterodroma phaeopygia phaeopygia"
CICONIIFORMES Threskiornithidae				
Ciconia boyciana	Sibley & Monroe 1993 (for species)	Ciconia boyciana is included in the family Ciconiidae	Move Ciconia boyciana from the family Threskiornithidae to the family Ciconiidae Add note: "Formerly included in Threskiornithidae"	Add note: "Sometimes included in the family Ciconiidae"
PHOENICOPTERIFORMES Phoenicopteridae			<u> </u>	
Phoenicopterus andinus	Sibley & Monroe 1993 (for	Phoenicoparrus andinus	Change Phoenicopterus andinus	Add note: "Sometimes listed as

Formerly listed as Phoenicoparrus andinus	species)		into <i>Phoenicoparrus andinus</i> Add note: "Formerly listed as <i>Phoenicopterus andinus</i> "	Phoenicoparrus andinus"
Phoenicopterus jamesi Formerly listed as Phoenicoparrus jamesi	Sibley & Monroe 1993 (for species)	Phoenicoparrus jamesi	Change Phoenicopterus jamesi into Phoenicoparrus jamesi Add note: "Formerly listed as Phoenicopterus jamesi"	Add note: "Sometimes listed as Phoenicoparrus jamesi"
PSITTACIFORMES Psittacidae				
Brotogeris pyrrhopterus	Sibley & Monroe 1993 (for species)	Brotogeris pyrrhoptera	Change Brotogeris pyrrhopterus into Brotogeris pyrrhoptera Add note: "Formerly listed as Brotogeris pyrrhopterus"	Add note: "Sometimes listed as Brotogeris pyrrhoptera"
PASSERIFORMES Parulidae		I	1	
Dendroica caerulea	Sibley & Monroe 1993 (for species)	Dendroica cerulea	Change <i>Dendroica caerulea</i> into <i>Dendroica cerulean</i> Add note: "Formerly listed as <i>Dendroica caerulea</i> "	Add note: "Sometimes listed as Dendroica cerulean"
Icteridae				
Agelaius flavus	Sibley & Monroe 1993 (for species)	Xanthopsar flavus	Change Agelaius flavus into Xanthopsar flavus Add note: "Formerly listed as Agelaius flavus"	Add note: "Sometimes listed as Xanthopsar flavus"

Appendix II: Taxonomic treatment and nomenclature for bird species and options for changes

Taxonomic treatment and

Present

Present taxonomic

treatment and nomenclature (with notes given)	taxonomic reference for each order/family (with notes on non- adherence)	nomenclature according to Dickinson 2003 and 2005	Apply Dickinson 2003 and 2005 as new taxonomic reference	Keep present taxonomic references
GAVIIFORMES				
Gavidae				
Gavia arctica suschkini		Subspecies is now included in Gavia arctica arctica	Delete"Gavia arctica suschkini" Add note to Gavia arctica arctica: "This includes Gavia arctica suschkini"	Add note: "Sometimes included in Gavia arctica arctica" Or: "Sometimes considered a subspecies of Gavia arctica arctica"
Gavia immer immer (only Northwest European population)	Sibley & Monroe 1993 (for species)	Gavia immer immer is now Gavia immer s.s.	Change" Gavia immer immer" into"Gavia immer s.s." Add note: "Formerly listed as "Gavia immer immer"	Add note: "Sometimes listed as Gavia immer s.s."
PODICIPEDIFORMES				
Podicipedidae				
Podiceps grisegena		Podiceps grisegena Includes: - P.g. grisegena - P.g. holboellii		
Podiceps auritus		Podiceps auritus Includes: - P.a. auritus - P.a. cornutus		
PROCELLARIIFORMES				
Diomedeidae				
Diomedea irrorata	Sibley & Monroe 1993 (for species)	Phoebastria irrorata	Change Diomedea irrorata into Phoebastria irrorata Add note: "Formerly listed as "Diomedea irrorata"	Add note: "Sometimes listed as Phoebastria irrorata"

Option 1

Option 2

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Diomedea exulans		Diomedea exulans Includes: - D.e. exulans - D.e. chionoptera - D.e. amsterdamensis - D.e. antipodensis - D.e. gibsoni		
Diomedea epomophora		Diomedea epomophora Includes: - D.e. sanfordi - D.e. epomophora		
Diomedea nigripes	Sibley & Monroe 1993 (for species)	Phoebastria nigripes	Change <i>Diomedea nigripes</i> into <i>Phoebastria nigripes</i> Add note: "Formerly listed as <i>Diomedea nigripes</i> "	Add note: "Sometimes listed as Phoebastria nigripes"
Diomedea immutabilis	Sibley & Monroe 1993 (for species)	Phoebastria immutabilis	Change Diomedea immutabilis into Phoebastria immutabilis Add note: "Formerly listed as Diomedea immutabilis"	Add note: "Sometimes listed as Phoebastria immutabilis "
Diomedea melanophris	Sibley & Monroe 1993 (for species)	Thalassarche melanophrys	Change <i>Diomedea melanophrys</i> into <i>Thalassarche melanophrys</i> Add note: "Formerly listed as <i>Diomedea melanophrys</i> "	Add note: "Sometimes listed as Thalassarche melanophrys"
Diomedea bulleri	Sibley & Monroe 1993 (for species)	Thalassarche bulleri	Change <i>Diomedea bulleri</i> into <i>Thalassarche bulleri</i> Add note: "Formerly listed as <i>Diomedea bulleri"</i>	Add note: "Sometimes listed as Thalassarche bulleri"
Diomedea cauta	Sibley & Monroe 1993 (for species)	Thalassarche cauta	Change <i>Diomedea cauta</i> into <i>Thalassarche cauta</i> Add note: "Formerly listed as <i>Diomedea cauta</i> "	Add note: "Sometimes listed as Thalassarche cauta"
Diomedea chlororhynchos	Sibley & Monroe 1993 (for species)	Thalassarche chlororhynchos	Change Diomedea chlororhynchos into Thalassarche chlororhynchos Add note: "Formerly listed as Diomedea chlororhynchos"	Add note: "Sometimes listed as Thalassarche chlororhynchos"

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Diomedea chrysostoma	Sibley & Monroe 1993 (for species)	Thalassarche chrysostoma	Change <i>Diomedea chrysostoma</i> into <i>Thalassarche chrysostoma</i> Add note: "Formerly listed as <i>Diomedea chrysostoma</i> "	Add note: "Sometimes listed as Thalassarche chrysostoma"
Procellariidae				
Pterodroma sandwichensis Formerly included in Pterodroma phaeopygia (s.l.)	?	Pterodroma phaeopygia sandwichensis	Delete Pterodroma.sandwichensis and Change Pterodroma phaeopygia into Pterodroma phaeopygia (s.l.)	Add note: "Sometimes listed as Pterodroma phaeopygia"
Pterodroma phaeopygia	?	Pterodroma phaeopygia phaeopygia	Add note: "This includes Pterodroma phaeopygia sandwichensis and Pterodroma phaeopygia phaeopygia formerly listed as Pterodroma phaeopygia and Pterodroma sandwichensis respectively"	Add note: "Sometimes listed as Pterodroma phaeopygia phaeopygia"
CICONIIFORMES Ardeidae				
Casmerodius albus albus (Western Palearctic populations)	Sibley & Monroe 1993 (for species)	Ardea alba alba	Change Casmerodius albus albus into Ardea alba alba Add note: "Formerly listed as Casmerodius albus albus"	Add note: "Sometimes listed as Ardea alba alba"
PHOENICOPTERIFORMES				
Phoenicopteridae				
Phoenicopterus andinus Formerly listed as Phoenicoparrus andinus	Sibley & Monroe 1993 (for species)	Phoenicoparrus andinus	Change Phoenicopterus andinus into Phoenicoparrus andinus Add note: "Formerly listed as Phoenicopterus andinus"	Add note: "Sometimes listed as Phoenicoparrus andinus"
Phoenicopterus jamesi Formerly listed as Phoenicoparrus jamesi	Sibley & Monroe 1993 (for species)	Phoenicoparrus jamesi	Change Phoenicopterus jamesi into Phoenicoparrus jamesi Add note: "Formerly listed as Phoenicopterus jamesi"	Add note: "Sometimes listed as Phoenicoparrus jamesi"

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Phoenicopterus minor	Sibley & Monroe 1993 (for species)	Phoeniconaias minor	Change Phoenicopterus minor into Phoeniconaias minor Add note: "Formerly listed as Phoenicopterus minor"	Add note: "Sometimes listed as Phoeniconaias minor"
ANSERIFORMES				
Anatidae				
Subfamily Oxyurinae		Subfamily Anatinae		
Oxyura dominica*	Sibley & Monroe 1993 (for species)	Nomonyx dominicus*		
*the species dominica	, , ,	* We follow Livezey (1995) and		
sometimes splits off in a		A.O.U. (1998) in recognizing this		
monotypic genus Nomonyx		genus.		
Subfamily Cygninae		Subfamily anserinae		
*The species name is treated in the original description as a noun in apposition, Anas Melanocorypha	Sibley & Monroe 1993 (for species)	*For correction of spelling see David & Gosselin (2002)		
Subfamily Anatinae Tribe anserini				
Anser caerulescens	Sibley & Monroe 1993 (for species)	Anser caerulescens Include a.c. caerulescens a.c.atlanticus		
Anser canagica		Anser canagicus		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Branta Canadensis* Includes:	Sibley & Monroe 1993 (for species)	Branta Canadensis Includes:		
-b.c.minima -b.c.canadensis -b.c. leucopareia -b.c. hutchinsii *Relationships between breeding populations and groups are uncertain; this complex probably consists of several species		-b.c.minima -b.c.canadensis -b.c. leucopareia -b.c. hutchinsii -d.c. occidentalis -b.c. fulva -b.c. maxima -b.c. taverneri -b.c. parvipes -b.c. moffitti -b.c. interior -b.c. asiatica*		
Cereopsis novaehollandiae	Sibley & Monroe 1993 (for species)	Cereopsis novaehollandiae Includes: -c.n. novaehollandiae -c.n. grisea		
		Subfamily Tadorninae		
Cyanochen cyanopterus		Cyanochen cyanoptera		
* Chloephaga picta* * Chloephaga leucoptera is an objetive junior synonym sometimos used as a complete replacement name	Sibley & Monroe 1993 (for species)	Chloephaga picta Includes: -c.p. picta -c.p.leucoptera		
for the accepted genus or scientific name				

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Chloephaga hybrida	Sibley & Monroe 1993 (for species)	Chloephaga hybrida Includes: -c.h. hybrida -c.h.malvinarum		
Alopochen aegyptiacus		Alopochen aegyptiaca		
Tadorna radjah	Sibley & Monroe 1993 (for species)	Tadorna radjah Includes:		
		t.r. radjah t.r. rufitergum Subfamily <i>anatinae</i>		
Cairina scutulata* *the species scutulata sometimes splits off in a monotypic genus Asarcornis	Sibley & Monroe 1993 (for species)	Asacornis Scutulata		
Tribe anatini				
Amazonetta brasiliensis	Sibley & Monroe 1993 (for species)	Amazonetta brasiliensis includes: - a.b. brasiliensis		
		- a.b. ipecutiri Subfamily Tadorninae		
Merganetta armata	Sibley & Monroe 1993 (for species)	Merganetta armata		
Includes:		Includes:		
- M.a. colombiana		- M.a. colombiana		
- M.a. Leucogenis		- M.a. Leucogenis		
- M.a. armata		- M.a. Turneri		
		M.a. GarleppiM.a. Berlepschi		
		- M.a. Beriepschi - M.a. armata		
		Subfamily anatinae		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Anas crecca	Sibley & Monroe	Anas crecca		
Includes:	1993 (for species)	Includes:		
- A.c. crecca		- A.c. crecca		
- A.c. carolinensis		- A.c. nimia		
		- A.c. carolinensis		
Anas flavirostris	Sibley & Monroe 1993 (for species)	Anas flavirostris		
Includes:		Includes: - A.f. altipetens		
- A.f.andium		- A.f. andium		
- A.f.flavirostris		- A.f.oxyptera - A.f.flavirostris		
Anas platyrhynchos Includes:	Sibley & Monroe 1993 (for species)	Anas platyrhynchos		
- A.p. platyrhynchos - A.p. diazi		Includes: - A.p. platyrhynchos - A.p. conboschas - A.p. diazi*		
		*some authors treat diazi as a species		
Anas undulata	Sibley & Monroe 1993 (for species)	Anas undulate Includes:		
		- A.u. ruppelli - A.u. undulata		
Anas poecilorhyncha*	Sibley & Monroe 1993 (for species)	Anas poecilorhyncha Includes:		
*closely related to and	(101 000000)			
possibly conspecif with A.		- A.p. poecilorhyncha		
superciliosa(white & Bruce, 1986)		- A.p. Harrington - A.p. zonorhyncha		
1986)		- A.p. zonorhyncha		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Anas superciliosa	Sibley & Monroe 1993 (for species)	Anas superciliosa Includes: - A.s. rogersi - A.s. superciliosa - A.s. pelewensis		
Anas sparsa	Sibley & Monroe 1993 (for species)	Anas sparsa Includes: - A.s.leucostigma - A.s. sparsa		
Anas specularoides*	Sibley & Monroe 1993 (for species)	Lophonetta specularoides Includes:		
*the species <i>specularoides</i> is sometimes splits off in a monotypic genus <i>Lophonetta</i>		L.s. alticolaL.s. specularoides		
*the species specularis sometimes splits off in a monotypic genus Speculanas	Sibley & Monroe 1993 (for species)	Speculanas specularis		
Anas bahamensis Includes:	Sibley & Monroe 1993 (for species)	Anas bahamensis Includes:		
A.b. bahamensisA.b.galapagensis		 A.b. bahamensis A.b. rubrirostris A.b.galapagensis 		
Anas puna* * sometimes considered	Sibley & Monroe 1993 (for species)	<u> </u>		
conspecific with A. versicolor, but see Blake (1977)		See a. versicolor (below)		
Anas versicolor*	Sibley & Monroe 1993 (for species)	Anas versicolor Includes:		
* sometimes considered conspecific with A. puna, but see Blake (1977)		- A.v. puna - A.v. versicolor - A.v. fretensis		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Anas cyanoptera* *natural hybrids between a. discors and a. cyanoptera are known	Sibley & Monroe 1993 (for species)	Anas cyanoptera Includes: - A.c. septentrionalium - A.c. tropicus - A.c borreroi - A.c. orinomus - A.c. cyanoptera		
*sometimes the shovelers of the world (subgenus spatula) are considered to represent a single subspecies a. [clypeata], but the relationships may be more distant.	Sibley & Monroe 1993 (for species)	Anas rhynchotis Includes: - A.r.rhynchotis - A.r.variegata		
Anas fulvigola* *May be conspecific with a. platyrhynchos	Sibley & Monroe 1993 (for species)	Anas fulvigola Includes: - A.f. fulvigola - A.f. maculosa Anas chlorotis		
Netta erythrophthalma	Sibley & Monroe 1993 (for species)	Anas nesiotis Netta erythrophthalma Includes: - N.e. brunnea - N.e. erythrophthalma		
Aythya australis	Sibley & Monroe 1993 (for species)	Aythya Australis Includes: - a.a. Australis* - a.a. extima * Includes ledeboeri and papuana based on apparent colonist of Java and on vagrants to New Guinea respectively.		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Aythya marila	Sibley & Monroe 1993 (for species)	Aythya marila Includes: - a.m. marila - a.m.neartica* * the name mariloides (Vigors, 1839), which has sometimos been applied to all or part of this population, is unavailable as it was attached to specimens of the lesser Scaup, see Banks, 1986. Its type locality has been corrected to San Francisco Bay.		
Somateria mollissima Includes: - s.m. v-nigrum* - s.m. mollissima *the correct spelling of the group name of the pacific Eider is v-nigrum, as in the original citation; the Reuter nigrum modifies the letter v; all letter are considered neuter.	Sibley & Monroe 1993 (for species)	Somateria mollissima Includes: - s.m. v-nigra - s.m. boreales - s.m. sedentaria - s.m. dresseri - s.m. faroeensis - s.m. mollissima		
Bucephala clangula	Sibley & Monroe 1993 (for species)	Bucephala clangula Includes: - b.c. clangula - b.c. americana		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Mergus merganser	Sibley & Monroe 1993 (for species)	Mergus merganser Includes: - M.m. merganser - M.m. orientalis* - M.m. americanus * This name may well have been attached to a bird (types in BMNH) representative of the nominate form. If so the distinct population of C Asia must be treated <i>comatus</i> Salvadori, 1895 (CSR).		
Order Anseriformes - Infraorder Anserides - Family Dendrocygnidae Dendrocygna arcuata	Sibley & Monroe 1993 (for species)	Order Anseriformes - Family Anatidae - Subfamily Dendrocygninae Dendrocygna arcuata Includes:		
Dendrocygna autumnalis		 d.a. arcuata d.a. pygmaea d.a. Australis Dendrocygna autumnalis Includes: d.a. autumnales 		
Thalassornis leuconotos		 d.a. discolor Thalassornis leuconotos Includes: t.l. leuconotos t.l. insularis 		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
FALCONIFORMES				
Family Ciconiidae Subfamily Cathartidae		Family Cathartidae		
Cathartes aura	Sibley & Monroe 1993 (for species)	Cathartes aura Includes:		
		- c.a. aura - c.a. septentrionalis - c.a. ruficollis - c.a. jota		
Family Accipitridae		Family Accipitridae		
Subfamily pandioninae		Subfamily pandioninae		T
Pandion haliaetus	Sibley & Monroe 1993 (for species)	Pandion haliaetus Includes:		
		 p.h. haliaetus p.h. carolinensis p.h. ridwayi p.h. cristatus 		
Subfamily Accipitrinae		Subfamily Accipitrinae*		
		* with rare exceptions the sequence of genera and species used here is that of Thiollay		
Avicena cuculoides	Sibley & Monroe 1993 (for species)	Avicena cuculoides Includes: - a.c. cuculoides - a.c. batesi - a.c. verreauxi*		
		*includes <i>emini</i>		

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Aviceda jerdoni	Sibley & Monroe 1993 (for species)	Aviceda jerdoni Includes - a.j. jerdoni - a.j. ceylonensis - a.j. magnirostris - a.j. celebensis		
Aviceda subcristata	Sibley & Monroe 1993 (for species)	Aviceda subcristata Includes: - a.s. timorlaoensis - a.s. rufa - a.s. stresemanni - a.s. reinwardtii - a.s. pallida - a.s. waigeuensis - a.s. obscura - a.s. stenozona - a.s megala - a.s. coultasi - a.s. bismarckii - a.s. gurneyi* 1 - a.s. subscristata* 2 * 1 includes robusta and proxima * 2 includes njikena		
Avicena leuphotes	Sibley & Monroe 1993 (for species)	Avicena leuphotes Includes - a.l. syama - a.l. wolfei - a.l. leuphotes* - a.l.andamanica *includes burmana		

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Leptodon cayanensis	Sibley & Monroe 1993 (for species)	Leptodon cayanensis - I.c. cayanensis - I.c. monachus		
Leptodon forbesi	Sibley & Monroe 1993 (for species)	- the validity of <i>Leptodon</i> forbesi seems not to have been established, but see Teixeira et al. (1987) and Bierregaard (1994)		
Chondrohierax uncinatus Includes: - c.u. uncinatus - c.u. wilsonii	Sibley & Monroe 1993 (for species)	Chondrohierax uncinatus - c.u. uncinatus - c.u. mirus - c.u. wilsonii		
Pernis celebensis	Sibley & Monroe 1993 (for species)	Pernis celebensis Includes: - p.c. celebensis - p.c. winkleri - p.c. steerei		
Elanoides forficatus	Sibley & Monroe 1993 (for species)	Elanoides forficatus Includes - e.f. forficatus - e.f. yetapa		
Macheirampus alcinus	Sibley & Monroe 1993 (for species)	Macheirampus alcinus Includes - m.a. anderssoni - m.a. alcinus - m.a.papuanus		
Gampsonyx swainsonii	Sibley & Monroe 1993 (for species)	Gampsonyx swainsonii Includes -g.s. leonae -g.s. magnus - g.s. swainsonii		

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Elanus caeruleus Includes: - e.c. caeruleus - e.c. hypoleucus	Sibley & Monroe 1993 (for species)	Elanus caeruleus* Includes: - e.c. caeruleus - e.c. vociferus - e.c. hypoleucus* 2 * 1 Mees argued for recognition of a separate species hypoleucus and reviewed alternative treatments; we do not follow him in this or in sinking vociferous in nominate caeruleus * 2 includes sumatranus and wahgiensis, see Mees		
Elanus leucurus	Sibley & Monroe 1993 (for species)	Elanus leucurus Includes e.l.majusculus e.l. leucurus		
Rostrhamus sociabilis	Sibley & Monroe 1993 (for species)	Rostrhamus sociabilis Includes -r.s. plumbeus - r.s. levis - r.s. major - r.s. sociabilis		
Harpagus bidentatus	Sibley & Monroe 1993 (for species)	Harpagus bidentatus Includes - h.b. fasciatus - h.b. bidentatus		
* Intergradation between migrans and lineatus has been reported in áreas of contact, but R. Liversidge suggests that these two forms are specifically distinct.	Sibley & Monroe 1993 (for species)	Milvus migrans Includes 7 subspecies		

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*Intergradation between migrans and lineatus has been reported in áreas of contact, but R. Liversidge suggests that these two forms are specifically distinct.	Sibley & Monroe 1993 (for species)			
Haliastur Indus	Sibley & Monroe 1993 (for species)	Haliastur Indus Includes - h.i. Indus - h.i. intermedius - h.i. girrenera - h.i. flavirostris		
Haliaetus albicilla	Sibley & Monroe 1993 (for species)	Haliaetus albicilla Includes - h.a. albicilla - h.a. groenlandicus		
Haliaeetus leucocephalus	Sibley & Monroe 1993 (for species)	Haliaeetus leucocephalus Includes - h.l. washingtoniensis - h.l. leucocephalus		
Haliaetus pelagicus	Sibley & Monroe 1993 (for species)	Haliaetus pelagicus Includes - h.p. pelagicus - h.p. niger		
Ichthyophaga humilis	Sibley & Monroe 1993 (for species)	Ichthyophaga humilis Includes - i.h. plumbea i.h. humilis		

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Gypaetus barbatus	Sibley & Monroe 1993 (for species)	Gypaetus barbatus Includes - G.b. aureus - G.b. barbatus - G.b. meridionalis		
Neophron percnopterus	Sibley & Monroe 1993 (for species)	Neophron percnopterus Includes: - n.p. percnopterus n.p. majorensis* n.p. ginginianus *We are insure that anyone has re-evaluated the name since its proposal. This is often because the material to do this is not widely available.		
Gyps rueppelli	Sibley & Monroe 1993 (for species)	Gyps rueppelli Includes: - G.r. rueppelli - G.r. erlangeri		
Gyps fulvus	Sibley & Monroe 1993 (for species)	Gyps fulvus Includes - G. f. fulvus - G.f. fulvescens		

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Gyps indicus Includes : - g.i. indicus g.i. tenuirostris*	Sibley & Monroe 1993 (for species)	Gyps indicus See below		
* tenuirostris is sometimos considered specifically distinct from indicus, but B. King indicates that they are similar and probably not worthy of recognition as species				
		Gyps tenuirostris		
Torgos tracheliotus	Sibley & Monroe 1993 (for species)	Torgos tracheliotus Includes: - T.t. negevensis - T.t. nubicus - T.t. tracheliotus		
Circaetus gallicus	Sibley & Monroe	Circaetus gallicus		
Includes; C.g. gallicus c.g. beaudouini	1993 (for species)	See below		
		Circaetus beaudouini		
Spilornis cheela* Includes: - S.c. cheela - S.c. abbotti - S.c. asturinus - S.c.sipora - S.c. natunensis * geographically variable with	Sibley & Monroe 1993 (for species)	Spilornis cheela Includes: 22 subspecies - S.c. cheela - S.c. abbotti - S.c. asturinus - S.c.sipora - S.c. natunensis included		
distinct forms on islands; species limits uncertain.				

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Spilornis minimus Includes Minimus Klossi*	Sibley & Monroe 1993 (for species)			
*Amadon and Bull recognized minimus as an allospecies				
Spilornis rufipectus	Sibley & Monroe 1993 (for species)	Spilornis rufipectus Includes - S. r. rufipectus - S.r. sulaensis		
Spilornis holospilus	Sibley & Monroe 1993 (for species)			
Dryotriorchis spectabilis	Sibley & Monroe 1993 (for species)	Dryotriorchis spectabilis Includes - D. s. spectabilis - D.s. batesi		
Circus aeroginosus	Sibley & Monroe 1993 (for species)	Circus aeroginosus Includes: - C.a. aeruginosus - C.a.harterti		
Polyboroides typus	Sibley & Monroe 1993 (for species)	Polyboroides typus Includes: - P.t. typus - P.t. pectoralis		
Kaupifalco monogrammicus	Sibley & Monroe 1993 (for species)	Kaupifalco monogrammicus Includes - K. m. monogrammicus - K.m. meridionalis		

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Melierax metabates	Sibley & Monroe 1993 (for species)	Melierax metabates Includes: - M.m. theresae - M.m. ignoscens - M.m. neumanni - M.m. metabates - M.m. mechowi		
*the species <i>gabar</i> is sometimes splits off in a monotypic genus <i>micronisus</i>	Sibley & Monroe 1993 (for species)	Micronisus gabar Includes: - M.g. niger - M.g. aequatorius - M.g.gabar		
Accipiter trivirgatus	Sibley & Monroe 1993 (for species)	Accipiter trivirgatus Includes 11 subspecies		
Accipiter toussenelii	Sibley & Monroe 1993 (for species)	Accipiter toussenelii Includes - A.t. macroscelides - A.t. lopezi - A.t. tossenelii		
Accipiter tachiro	Sibley & Monroe 1993 (for species)	Accipiter tachiro Includes - A.t. canescens - A.t. unduliventer - A.t. croizati - A.t. sparsimfasciatus - A.t. pembaensis - A.t. tachiro		
Accipiter castanilius	Sibley & Monroe 1993 (for species)	Accipiter castanilius Includes - A.c.castanilius - A.c. beniensis		

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Accipiter badius Inc a.b. polyzonoides a.b. badius	Sibley & Monroe 1993 (for species)	Accipiter badius Includes: - a.b. polyzonoides - a.b. badius		
		- a.b. sphenurus - a.b. cenchroides -a.b. dussumieri - a.b. poliopsis		
Accipiter butleri	Sibley & Monroe 1993 (for species)	Accipiter butleri Includes - A.b. butleri - A.b. obsoletus		
Accipiter francesii	Sibley & Monroe 1993 (for species)	Accipiter francesii Includes: - A.f. griveaudi - A.f. pusillus - A.f. francesii - A.f. brutus		
Accipiter novahollandiae Includes:	Sibley & Monroe 1993 (for species)	Accipiter novahollandiae Includes 23 subspecies		
- A.n. Hiogaster - A.n. Pulchellus - A.n. novahollandiae		- A.n. Hiogaster - A.n. Pulchellus - A.n. novahollandiae included		
Accipiter fasciatus - A.f Wallacii - A.f. Fasciatus	Sibley & Monroe 1993 (for species)	Accipiter fasciatus Includes 12 subspecies - A.f Wallacii - A.f. Fasciatus		
		included		

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Accipiter melanochlamys	Sibley & Monroe 1993 (for species)	Accipiter melanochlamys Includes: - A.m. melanochlamys - A.m. schisacinus		
Accipiter albogularis	Sibley & Monroe 1993 (for species)	Accipiter albogularis Includes: - A.a. eichhorni - A.a. woodfordi - A.a.gilvus - A.a. albogularis - A.a. sharpei		
Accipiter superciliosus	Sibley & Monroe 1993 (for species)	Accipiter superciliosus Includes: - A.s. fontanieri - A.s superciliosus		
Accipiter erythropus	Sibley & Monroe 1993 (for species)	Accipiter erythropus Includes: - A.e. erythropus - A.e. zenkeri		
Accipiter minullus	Sibley & Monroe 1993 (for species)	Accipiter minullus Includes: - A.m. minullus - A.m. tropicalis		

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Accipiter gularis	Sibley & Monroe 1993 (for species)	Accipiter gularis Includes: - A.g. sibiricus - A.g. gularis - A.g. iwasakii		
Accipiter virgatus	Sibley & Monroe 1993 (for species)	Accipiter virgatus Includes 10 subspecies		
Accipiter erythrauchen	Sibley & Monroe 1993 (for species)	Accipiter erythrauchen Includes: - A.e. arythrauchen - A.e. ceramensis		
Accipiter cirrocephalus	Sibley & Monroe 1993 (for species)	Accipiter cirrocephalus Includes: - A.c. papuanus - A.c. rosselianus - A.c. cirrhocephalus		
Accipiter rhodogaster	Sibley & Monroe 1993 (for species)	Accipiter rhodogaster Includes: - A.r. rhodogaster - A.r. sulaensis		
Accipiter nisus	Sibley & Monroe 1993 (for species)	Accipiter nisus Includes 7 subspecies		
Accipiter rufiventris	Sibley & Monroe 1993 (for species)	Accipiter rufiventris Includes: - A.r. perspicillaris - A.r. rufiventris		

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Accipiter striatus	Sibley & Monroe 1993 (for species)	Accipiter striatus Includes: - A.s perobscurus - A.s. velox - A.s. suttoni - A.s. madrensis - A.s. fringilloides - A.s. striatus - A.s. venator - A.s chionogaster - A.s ventralis - A.s erythronemius		
Accipiter chionogaster	Sibley & Monroe 1993 (for species)			
Accipiter ventrales	Sibley & Monroe 1993 (for species)			
Accipiter erythronemius	Sibley & Monroe 1993 (for species)			
Accipiter gundlachii	Sibley & Monroe 1993 (for species)	Accipiter gundlachii Includes: - A.g. gundlachii - A.g. wileyi		
Accipiter bicolor Includes: - A.b.Bicolor - A.b. Guttifer - A.b. chilensis	Sibley & Monroe 1993 (for species)	Accipiter bicolor Includes: - A.b. Fidens - A.b.Bicolor - A.b. Pileatus - A.b. Guttifer - A.b. chilensis		

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Accipiter melanoleucus	Sibley & Monroe 1993 (for species)	Accipiter melanoleucus Includes: - A.m. temminckii - A.m. melanoleucus		
Accipiter gentilis Includes: - A.g. Gentilis - A.g. Atricapillus	Sibley & Monroe 1993 (for species)	Accipiter gentilis Includes 10 subspecies - A.g. Gentilis - A.g. Atricapillus included		
Geranospiza caerulencens Includes: - G.c. nigra - G.c. caerulescens - G.c. gracilis	Sibley & Monroe 1993 (for species)	Geranospiza caerulencens Includes: - G.c. livens - G.c. nigra - G.c. balzarensis - G.c. caerulescens - G.c. gracilis - G.c. flexipes		
Leucopternis plumbea	Sibley & Monroe 1993 (for species)	Leucopternis plumbeus		
Leucopternis schistacea	Sibley & Monroe 1993 (for species)	Leucopternis schistaceus		
Leucopternis lacernulata	Sibley & Monroe 1993 (for species)	Leucopternis lacernulatus		
Leucopternis semiplumbea	Sibley & Monroe 1993 (for species)	Leucopternis semiplumbeus		
Leucopternis albicollis	Sibley & Monroe 1993 (for species)	Leucopternis albicollis Includes: - L.a. ghiesbreghti - L.a.costaricensis - L.a. williaminae		

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Leucopternis polionota	Sibley & Monroe 1993 (for species)	Leucopternis polionotus		
Buteogallus anthracinus Includes:	Sibley & Monroe 1993 (for species)	Buteogallus anthracinus Includes:		
- B.a.anthracinus - B.a.gundlachii		- B.a.anthracinus - B.a. utilensis - B.a.gundlachii		
Buteogallus subtilis	Sibley & Monroe 1993 (for species)	Buteogallus subtilis Includes: - B.s. rhizophorae - B.s.bangsi - B.s.subtilis Buteogallus urubitinga		
Parabuteo unicinctus	Sibley & Monroe 1993 (for species)	Parabuteo unicinctus Includes: - P.u. harrisi* - P.u. unicinctus *includes superior		
Busarellus nigricollis	Sibley & Monroe 1993 (for species)	Busarellus nigricollis Includes: - B.n. nigricollis - B.n. leucocephalus		
Geranoaetus solitarius	Sibley & Monroe 1993 (for species)	Geranoaetus solitarius Includes: - G.s. sheffleri - G.s. solitarius		

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Asturina nitida	Sibley & Monroe 1993 (for species)	Asturina nitida Includes: - A.n. costaricensis - A.n. nitida - A.n. plagiata - A.n. pallid		
Asturina plagiata	Sibley & Monroe 1993 (for species)			
Buteo magnirostris Buteo platypterus Buteo brachyrus	Sibley & Monroe 1993 (for species) Sibley & Monroe 1993 (for species) Sibley & Monroe 1993 (for species) Sibley & Monroe 1993 (for species) Sibley & Monroe 1993 (for species)	Buteo magnirostris Includes 12 subspecies Buteo lineatus Includes: - B.I.lineatus - B.I.alleni - B.I.extimus - B.I.texanus - B.I.elegans Buteo platypterus Includes 6 subspecies Buteo brachyrus Includes: - B.b. fuliginosus - B.b. brachyurus		
Buteo albicaudatus	Sibley & Monroe 1993 (for species)	Buteo albicaudatus Includes: - B.a. hypospodius - B.a. colonus - B.a. albicaudatus		
Buteo jamaicensis	Sibley & Monroe 1993 (for species)	Buteo jamaicensis Includes 14 subspecies		

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Buteo buteo Includes:	Sibley & Monroe 1993 (for species)	Buteo buteo Includes 11 subspecies		
 B.b. Buteo B.b. Vulpinus B.b. Menetriesi B.b. Japonicus 		- B.b. Buteo - B.b. Vulpinus - B.b. Menetriesi - B.b. Japonicus		
		included		
Buteo oreophilus	Sibley & Monroe 1993 (for species)	Buteo oreophilus Includes:		
		- B.o. oreophilus - B.o. toyoshimai - B.o. oshiroi		
Buteo rufinus	Sibley & Monroe 1993 (for species)	Buteo rufinus Includes:		
		- B.r. rufinus - B.r. cistensis		
Buteo lagopus	Sibley & Monroe 1993 (for species)	Buteo lagopus Includes:		
		- B.I. lagopus - B.I. menzbieri - B.I.kamchtkensis - B.I.sanctijohannis		
Buteo augur	Sibley & Monroe 1993 (for species)	Buteo augur Includes:		
		- B.a. archeri - B.a. augur		
Buteo archeri	Sibley & Monroe 1993 (for species)			

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Ictinaetus malayensis	Sibley & Monroe 1993 (for species)	Ictinaetus malayensis Includes: - I.m. perniger		
Aquila pomarina	Sibley & Monroe 1993 (for species)	- I. m. malayensis Aquila pomarina Includes: - A.p. pomarina		
Aquila rapax	Sibley & Monroe 1993 (for species)	- A.p. hastata Aquila rapax Includes: - A.r. vindhiana		
Aquila vindhiana	Sibley & Monroe 1993 (for species)	- A.r. belisarius - A.r. rapax		
Aquila nipalensis	Sibley & Monroe 1993 (for species)	Aquila nipalensis Includes: - A.n. orientalis - A.n. nipalensis		
Aquila wahlbergi	Sibley & Monroe 1993 (for species) Sibley & Monroe 1993 (for species)	Aquila chrysaetos Includes 7 subspecies		
Aquila audax	Sibley & Monroe 1993 (for species)	Aquila audax Includes: - A.a. audax		
		- A.a.fleayi Hieraaetus wahlbergi		
Hieraaetus fasciatus	Sibley & Monroe 1993 (for species)	Hieraaetus fasciatus Includes: - H.f. fasciatus - H.f. renschi		

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Hieraaetus morphnoides	Sibley & Monroe 1993 (for species)	Hieraaetus morphnoides Includes: - H.m. weiskei - H.m. morphnoides		
Hieraaetus kienerii	Sibley & Monroe 1993 (for species)	Hieraaetus kienerii Includes: - H.k. kienerii - H.k. formosus		
Spizaetus cirrhatus Includes:	Sibley & Monroe 1993 (for species)	Spizaetus cirrhatus Includes:		
S.c. LimnaeetusS.c. CirrhatusS.c. floris		 S.c. Limnaeetus S.c. Cirrhatus S.c. floris S.c. eylanensis S.c.andamanensis S.c.vanheurni 		
Spizaetus nipalensis	Sibley & Monroe 1993 (for species)	Spizaetus nipalensis Includes: - S.n. nipalensis - S.n. kelaarti - S.n. orientalis		
Spizaetus philippensis	Sibley & Monroe 1993 (for species)	Spizaetus philippensis Includes: - S.p. philippensis - S.p. pinskeri		
Spizaetus nanus	Sibley & Monroe 1993 (for species)	Spizaetus nanus Includes: - S.n. nanus - S.n. stresemanni		

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Spizaetus tyranus	Sibley & Monroe 1993 (for species)	Spizaetus tyranus Includes: - S.t. serus - S.t. tyrannus		
Spizaetus ornatos	Sibley & Monroe 1993 (for species)	Spizaetus ornatos Includes: - S.o. vicarius - S.o. ornatus		
Falconidae		Falconidae Subfamily polyborinae		
*the species americanus is sometimes splits off in a monotypic genus ibycter	Sibley & Monroe 1993 (for species)	Ibycter americanus		
* Caracara is an objetive junior synonym sometimos used as a complete replacement name for the accepted genus or scientific name.	Sibley & Monroe 1993 (for species)	Caracara lutosa		
Polyorus plancus* Includes: - p.p. plancus - p.p. cheriway * Caracara is an objetive junior synonym sometimos used as a complete replacement name for the accepted genus or scientific name.	Sibley & Monroe 1993 (for species)	Caracara plancus Caracara cheriway		

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Milvago chimachima	Sibley & Monroe 1993 (for species)	Milvago chimachima Includes - M.c. cordata - M.c chimachima		
Milvago chimango	Sibley & Monroe 1993 (for species)	Milvago chimango Includes: - M.c.Chimango - M.c.Temucoensis		
Herpetotheres cachinnans	Sibley & Monroe 1993 (for species)	Herpetotheres cachinnans Includes: - H.c. chapmani - H.c. cachinnans - H.c. queribundus		
Micrastur ruficollis	Sibley & Monroe 1993 (for species)	Micrastur ruficollis Includes 6 subspecies		
Micrastur semitorquatus	Sibley & Monroe 1993 (for species)	Micrastur semitorquatus Includes: - M.s. naso - M.s. semitorquatus Subfamily falconinae		
Spiziapteryx circumcinctus	Sibley & Monroe 1993 (for species)	Spiziapteryx circumcincta		
Polihierax semitorquatus	Sibley & Monroe 1993 (for species)	Polihierax semitorquatus Includes. - P.s. castanotus - P.s. semitorquatus		
Polihierax insignis	Sibley & Monroe 1993 (for species)	Polihierax insignis Includes : - P.i. insignis - P.i. cinereiceps - P.i. harmandi		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Microhieras caerulencens	Sibley & Monroe 1993 (for species)	Microhieras caerulencens Includes : - M.c. caerulencens - M.c. burmanicus		
Microhieras erythrogenys	Sibley & Monroe 1993 (for species)	Microhieras erythrogenys Includes : - M.e. erythrogenys - M.e. meridionalis		
Falco berigora	Sibley & Monroe 1993 (for species)	Falco berigora Includes: - F.b. novaeguineae - F.b. berigora* - F.b. occidentalis - F.b. tasmanicus *includes centralia		
Falco altaicus	Sibley & Monroe 1993 (for species)			
Falco tinnunculus	Sibley & Monroe 1993 (for species)	Falco tinnunculus Includes 12 subspecies		
Falco newtoni	Sibley & Monroe 1993 (for species)	Falco newtoni Includes: - F.n. newtoni - F.n. aldabranus		
Falco moluccensis	Sibley & Monroe 1993 (for species)	Falco moluccensis Includes: - F.m. moluccensis - F.m. microbalius* *includes jungei		
Falco sparverius	Sibley & Monroe 1993 (for species)	Falco sparverius Includes 17 subspecies		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Falco rupicoloides	Sibley & Monroe 1993 (for species)	Falco rupicoloides Includes: - F.r. fieldi - F.r. arthuri - F.r. rupicoloides		
Falco chicquera	Sibley & Monroe 1993 (for species)	Falco chicquera Includes: - F.c. chicquera - F.c. ruficollis - F.c. horsbrughi		
Falco femoralis	Sibley & Monroe 1993 (for species)	Falco femoralis Includes: - F.f. septentrionalis - F.f. femoralis - F.f. pichinchae		
Falco columbarius	Sibley & Monroe 1993 (for species)	Falco columbarius Includes 7 subspecies		
Falco rufigularis	Sibley & Monroe 1993 (for species)	Falco rufigularis Includes: - F.r.petoensis - F.r. rufigularis - F.r. ophryophanes		
Falco subbuteo	Sibley & Monroe 1993 (for species)	Falco subbuteo Includes: - F.s. subbuteo - F.s streichi		
Falco severus	Sibley & Monroe 1993 (for species)	Falco severus Includes - F.s. severus - F.s. papuanus		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Falco longipennis	Sibley & Monroe 1993 (for species)	Falco longipennis Includes - F.I. hanieli		
		- F.I longipennis - F.I. murchisonianus		
Falco biarmicus	Sibley & Monroe 1993 (for species)	Falco biarmicus Includes		
		 F.b. feldeggii F.b. erlangeri F.b. tanytepterus F.b.abyssinicus F.b. biarmicus 		
Falco cherrug	Sibley & Monroe 1993 (for species)	Falco cherrug Includes: - F.c.cherrug* 1 - F.c. milvipes *2 - F.c. coatsi - F.c. hendersoni *1 includes cyanopus		
		*2 includes altaicus a name applied to a morph of this race		
Falco peregrinus	Sibley & Monroe 1993 (for species)	Falco peregrinus Includes 16 subspecies		
Falco pelegrinoides	Sibley & Monroe 1993 (for species)	Falco pelegrinoides Includes: - F.p. babylonicus - F.p.pelegrinoides		
GRUIFORMES Rallidae				

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Porzana parva parva	?	Porzana parva	Change Porzana parva parva into Porzana parva Add note: "Formerly listed as Porzana parva parva"	Add note: "Sometimes listed as Porzana parva"
Gruidae				
Grus spp. This includes Grus virgo, formerly listed as Anthropoides virgo	Sibley & Monroe 1993 (for species)	Grus virgo is now Anthropoides virgo	Change note: This includes Anthropoides virgo, formerly listed as Grus virgo	
Grus paradisea	Sibley & Monroe 1993 (for species)	Anthropoides paradiseus		
Grus carunculatus	Sibley & Monroe 1993 (for species)	Bugeranus carunculatus		
Grus Canadensis	Sibley & Monroe 1993 (for species)	Grus Canadensis Includes: - G.c. Canadensis - G.c. rowani - G.c. tabida - G.c. pratensis - G.c. pulla		
Grus antigone	Sibley & Monroe 1993 (for species)	- G.c. nesiotes Grus antigone Includes:		
		- G.a. antigone - G.a. sharpie - G.a. gillae		
Grus grus	Sibley & Monroe 1993 (for species)	Grus grus Includes: - G.g. grus - G.g. lilfordi		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Family charadriidae Subfamily recurvirostrinae Tribe recurvirostrini				
Ibidorhyncha struthersii	Sibley & Monroe 1993 (for species)	Family ibidorrhynchidae Ibidorhyncha struthersii		
Himantopus himantopus	Sibley & Monroe 1993 (for species)	Family recurvirostridae Himantopus himantopus Includes: - H.h. himantopus - H.h. leucocephalus - H.h. knudseni - H.h. mexicanus - H.h. malanurus		
*May be conspecific with h. himantopus	Sibley & Monroe 1993 (for species)			
Himantopus mexicanus Includes - h.m. Mexicanus	Sibley & Monroe 1993 (for species)			
- h.m Knudseni Himantopus melanurus				
riimantopus meianurus		Family Charadriidae		
Subfamily charadriinae		Subfamily pluvialinae		
Pluvialis apricaria	Sibley & Monroe 1993 (for species)	Pluvialis apricaria Includes - p.a. altifrons - p.a. apricaria		
Pluviales squatarola	Sibley & Monroe 1993 (for species)	Pluviales squatarola Includes - P.s. squatarola - P.s. tomkovichi - P.s cynosurae Subfamily charadriinae		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Charadrius hiaticula	Sibley & Monroe 1993 (for species)	Charadrius hiaticula Includes: - C.h. psammodroma - C.h. hiaticula - C.h. tundrae		
Charadrius dubius	Sibley & Monroe 1993 (for species)	Charadrius dubius Includes - C.d. curonicus - C.d jerdoni - C.d dubius		
Charadrius wilsonia	Sibley & Monroe 1993 (for species)	Charadrius wilsonia Includes 4 subspecies		
Charadrius vociferus	Sibley & Monroe 1993 (for species)	Charadrius vociferus Includes: - C.v. vociferus - C.v. ternominatus - C.v. peruvianus		
Charadrius tricollaris	Sibley & Monroe 1993 (for species)	Charadrius tricollaris Includes: - C.t. tricollaris - C.f. bifrontatus		
Charadrius pallidus	Sibley & Monroe 1993 (for species)	Charadrius pallidus Includes - C.p. venustus - C.p. pallidus		
Charadrius alexandrinus	Sibley & Monroe 1993 (for species)	Charadrius alexandrinus Includes 5 subspecies		
Charadrius marginatus	Sibley & Monroe 1993 (for species)	Charadrius marginatus Includes 4 subspecies		
Charadrius bicinctus	Sibley & Monroe 1993 (for species)	Charadrius bicinctus Includes: - C.b. bicinctus		
		- C.b. exilis		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Atrifrons Mongolus	Sibley & Monroe 1993 (for species)	Charadrius mongolus Includes 5 subspecies		
Charadrius leschenaultii	Sibley & Monroe 1993 (for species)	Charadrius leschenaultii Includes - C.I. columbinus - C.I. crassirostris		
Charadrius rubricollis*	Sibley & Monroe 1993 (for species)	- C.I. leschenaultii Thinornis rubricollis *		
*the species <i>rubricollis</i> is sometimes splits off in a monotypic genus <i>thinornis</i>		*we suspect genus thinornis will prove to be close to the Vanelliae		
Charadrius novaeseenlandiae	Sibley & Monroe 1993 (for species)	Thinornis novaeseenlandiae* *we suspect genus thinornis will prove to be close to the Vanelliae		
Eudromias morinellus	Sibley & Monroe 1993 (for species)	Charadrius morinellus* *treated in the genus Eudromias in last Edition, but see Cramp et al.(1983)		
Oreopholus ruficollis	Sibley & Monroe 1993 (for species)	Oreopholus ruficollis Includes: - O.r. pallidus - O.r. ruficollis Subfamily vanellinae		
Vanellus crassirostris	Sibley & Monroe 1993 (for species)	Vanellus crassirostris Includes: - V.c. crassirostris - V.c leucopterus		
Vanellus tectus	Sibley & Monroe 1993 (for species)	Vanellus tectus Includes - V.t. tectus - V.t. latifrons		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Vanellus melanopterus	Sibley & Monroe 1993 (for species)	Vanellus melanopterus Includes - V.m. melanopterus - V.m. minor		
Vanellus coronatus	Sibley & Monroe 1993 (for species)	Vanellus coronatus Includes - V.c. demissus - V.c. coronatus - V.c. xerophilus		
Vanellus senegallus	Sibley & Monroe 1993 (for species)	Vanellus senegallus Includes - V.s. sengallus - V.s major - V.s. lateralis		
Vanellus indicus	Sibley & Monroe 1993 (for species)	Vanellus indicus Includes - V.i. aigneri - V.i. indicus - V.i. lankae - V.i. atronuchalis		
Vanellus miles	Sibley & Monroe 1993 (for species)	Vanellus miles Includes - V.m. miles - V.m. novaehollandidae		
Vanellus macropterus	Sibley & Monroe 1993 (for species)	Vanellus macropterus* *there is some doubt about extinction		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Vanellus chilensis Includes	Sibley & Monroe 1993 (for species)	Vanellus chilensis Includes		
 V.c cayennensis V.c chilensis 		 V.c cayennensis V.c. lampronotus V.c chilensis V.c fretensis 		
Family Scolopacidae				
Subfamily scolopacinae		Subfamily scolopacinae		
		Scolopax rosenbergii Scolopax bukidnonensis		
Scolopax celebensis	Sibley & Monroe 1993 (for species)	Scolopax celebensis Includes		
		- S.c. heinrichi - S.c. celebensis		
		Subfamily gallinagininae		
Coenocorypha aucklandica	Sibley & Monroe 1993 (for species)	Coenocorypha aucklandica Includes 5 subspecies		
Gallinago soilitaria	Sibley & Monroe 1993 (for species)	Gallinago soilitaria Includes		
		- G.s. solitaria - G.s. japonica		
Gallinago nigripennis	Sibley & Monroe 1993 (for species)	Gallinago nigripennis Includes		
		- G.n. aequatorialis - G.n. angolensis - G.n. nigripennis		
Gallinago galllinago Includes:	Sibley & Monroe 1993 (for species)	Gallinago galllinago Includes:		
- G.g. delicata - G.g. gallinago		- G.g. delicata - G.g. gallinago - G.g. faeroeensis		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Gallinago undulata	Sibley & Monroe 1993 (for species)	Gallinago undulata Includes - G.u. undulate - G.u.gigantea		
Limnodromus griseus	Sibley & Monroe 1993 (for species)	Limnodromus griseus Includes - L.g. caurinus - L.g. hendersoni - L.g. griseus		
Subfamily tringinae		Subfamily tringinae		
*the species cinerea is sometimes splits off in a monotypic genus xenus	Sibley & Monroe 1993 (for species)	Xenus cinereus		
Tringa hypoleucos *the species hypoleucos is sometimes splits off in a monotypic genus actitis	Sibley & Monroe 1993 (for species)	Actitis hypoleucus		
Tringa macularia	Sibley & Monroe 1993 (for species)	Actitis macularius		
Tringa brevipes *the species brevipes is sometimes splits off in a monotypic genus heteroscelus	Sibley & Monroe 1993 (for species)	Heteroscelus brevipes		
Tringa incana	Sibley & Monroe 1993 (for species)	Heteroscelus incanus		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
* Aechmorhynchus is an objetive junior synonym sometimos used as a complete replacement name for the accepted genus or scientific name	Sibley & Monroe 1993 (for species)	Aechmorhynchus cancellatus		
Limosa limosa	Sibley & Monroe 1993 (for species)	Limosa limosa Includes - L.I. islandica - L.I limosa - L.I. melanuroides		
Limosa lapponica	Sibley & Monroe 1993 (for species)	Limosa lapponica Includes - L.I. lapponica - L.I. taymyrensis - L.I menzbieri - L.I baueri		
Limosa fedoa	Sibley & Monroe 1993 (for species)	Limosa fedoa Includes - L.f. fedoa - L.f. beringiae		
Numenius phaeopus Includes	Sibley & Monroe 1993 (for species)	Numenius phaeopus Includes		
- N.p. phaeopus - N.p. hudsonicus		 N.p. islandicus N.p. phaeopus N.p. alboaxillaris N.p. variegatus N.p. ruficentris N.p. hudsonicus 		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Numenius arquata	Sibley & Monroe 1993 (for species)	Numenius arquata Includes - N.a. arquata - N.a. orientalis - N.a suschkini		
Numenius americanus	Sibley & Monroe 1993 (for species)	Numenius americanus Includes - N.a. parvus - N.a. americanus		
Tringa tetanus	Sibley & Monroe 1993 (for species)	Tringa tetanus Includes 6 subspecies		
Tringa solitaria	Sibley & Monroe 1993 (for species)	Tringa solitaria Includes - T.s. cinnamomea - T.s. solitaria		
Catoptrophorus semipalmatus	Sibley & Monroe 1993 (for species)	Catoptrophorus semipalmatus Includes - C.s. inornatus - C.s. semipalmatus Subfamily arenariinae		
Arenaria interpres	Sibley & Monroe 1993 (for species)	Arenaria interpres Includes - A.i. interpres - A.i. morinella		
Limícola falcinellus	Sibley & Monroe 1993 (for species)	Limícola falcinellus Includes - L.f. falcinellus - L.f. sibirica		
Calidris canutus	Sibley & Monroe 1993 (for species)	Calidris canutus Includes 6 subspecies		

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Calidris alba	Sibley & Monroe 1993 (for species)	Calidris alba Includes - C.a. alba		
Calidris marítima	Sibley & Monroe 1993 (for species)	- C.a. rubida Calidris marítima Includes - C.m. belcheri - C. m. marítima - C.m. littoralis		
Calidris ptilocnemis	Sibley & Monroe 1993 (for species)	Calidris ptilocnemis Includes - C.p. tschuktchorum - C.p.ptilocnemis - C.p. couesi - C.p. quarta		
Calidris alpina	Sibley & Monroe 1993 (for species)	Calidris alpina Includes 10 subspecies		
Micropalama himantopus* *Genus Micropalma has been split from genus calidris	Sibley & Monroe 1993 (for species)	Calidris hymantopus		
Steganopus tricolor	Sibley & Monroe 1993 (for species)	Phalaropus tricolor		
Phalaropus fulicaria Pluvianellus socialis		Phalaropes fulicarius Family chionidae Pluvianellus socialis		
PASSERIFORMES				
Family Muscicapidae				
Subfamily turdinae		Family turdidae		
Subfamily Muscicapinae		Family muscicapidae		
Tribe muscicapini				

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
		Subfamily muscicapinae		
Tribe saxicolini		Subfamily saxicolinae (chats)		
		Pogonocichla stellata		
		Includes 9 subspecies		
Swynnertonia swynnertoni		Swynnertonia swynnertoni Includes		
		- S.s. swynnertoni - S.s. rodgersi		
Stiphrornis erythrothorax		Stiphrornis erythrothorax Includes		
		S.e erythrothoraxS.e. gabonensisS.e. xanthogaster		
Sheppardia bocagei		Sheppardia bocagei Includes 8 subspecies		
Sheppardia cyornithopsis		Sheppardia cyornithopsis Includes		
		- S.c. houghtoni - Sc. cyornithopsis - S.c. lopezi		
Sheppardia aequatorialis		Sheppardia aequatorialis Includes		
		- S.a.acholiensis - S.a. aequatorialis		
Sheppardia sharpei		Sheppardia sharpei Includes		
		- S.s. usambarae - S.s. sharpei		
Sheppardia gunningi		Sheppardia gunningi Includes 4 subspecies		
Tyrannidae				

Present taxonomic treatment and nomenclature (with notes given)	Present taxonomic reference for each order/family (with notes on non- adherence)	Taxonomic treatment and nomenclature according to Dickinson 2003 and 2005	Option 1 Apply Dickinson 2003 and 2005 as new taxonomic reference	Option 2 Keep present taxonomic references
Pseudocolopteryx dinellianus	Sibley & Monroe 1993 (for species)	Pseudocolopteryx dinelliana	Change Pseudocolopteryx dinellianus into Pseudocolopteryx dinelliana Add note: "Formerly listed as Pseudocolopteryx dinellianus"	Add note: "Sometimes listed as Pseudocolopteryx dinelliana"

A.O.U - American Ornithologists' Union

BMNH - British Museum of Natural History

Annex 2 Taxonomic treatment and nomenclature families and orders of birds

Taxonomic treatment according to Morony, Bock & Farrand	Taxonomic treatment according to Sibley & Monroe	Taxonomic treatment according to Dickinson 2003 and 2005 ⁱ
Order SPHENICIFORMES Family Sphenicidae	- See Order CICONIIFORMES	Order SPHENICIFORMES The interrelationships of penguins (spheniciformes), loons (gaviiformes), and procellariforms seabirds are still not established convincingly. However, various authors using morphological (Cracaf, livezey & Zusi) or molecular data (Sibley & Ahlquist, van Tuinen et al) have them clustering together or near one another, with penguins and procellariiforms generally being sister-taxa. This applies to SPHENICIFORMES, GAVIIFORMES and PROCELLARIIFORMES
Order GAVIIFORMES Family Gaviidae	- See Order CICONIIFORMES	- See SPHENICIFORMES
Order PODICIPEDIFORMES Family Podicipedidae	- See Order CICONIIFORMES	- See Order CICONIIFORMES
Order PROCELLARIIFORMES Family Diomedeidae Family Procellariidaea Family Hydrobatidae Family Pelecanoididae	- See Order CICONIIFORMES	- See SPHENICIFORMES

Taxonomic treatment according to Morony, Bock & Farrand	Taxonomic treatment according to Sibley & Monroe	Taxonomic treatment according to Dickinson 2003 and 2005 ⁱ
Order PELECANIFORMES Family Phaetontidae		Order PELECANIFORMES
Family Priaetonidae Family Pelecanidae Family Sulidae Family Phalacrocoracidae Family Anhingidae Family Fregatidae	- See Order CICONIIFORMES	Like the ciconiiformes, the pelcaniforms have also been the subject of exuberant claims of paraphyly, yet the idea that they are not related was never adequately supported by the data.

Taxonomic treatment according to Morony, Bock & Farrand	Taxonomic treatment according to Sibley & Monroe	Taxonomic treatment according to Dickinson 2003 and 2005 ⁱ
Order CICONIIFORMES	Order CICONIIFORMES	Order CICONIIFORMES*
Family Ardeidae	Family Pteroclidae	Order Ordervilli Ortivizo
Family Balaenicipitidae	Family Thinocoridae	*It has become fashionable in recent years
Family Scopidae	Family Pedionomidae	to dismember the traditional Ciconiiformes
Family Ciconiidae	Family Scolopacidae	(e.g, Sibley & Ahlquist 1990). It now
Family Threskiornithidae	Family Rostratulidae	seems there may be at least a core group of
Family Phoenicopteridae	Family Jacanidae	taxa that are related, including ciconiids,
	Family Chioninidae	threskiornithids, and ardeids. However,
	Family Burhinidae	other former ciconiiforms appear closer to
	Family Charadriidae	pelecaniforms.
	Family Glareolidae	
	Family Laridae	(this involves : CICONIIFORMES,
	Family Accipitridae	PHOENICOPTERIFORMES,
	Family Sagittaridae	PODICIPEDIFORMES)
	Family Falconidae	
	Family Podicipedidae	
	Family Phaethontidae	
	Family Sulidae	
	Family Anhingidae	
	Family Phalacrocoracidae	
	Family Ardeidae	
	Family Scopidae	
	Family Phoenicopteridae	
	Family Threskiornithidae	
	Family Pelecanidae	
	Family Ciconiidae	
	Family Fregatidae	
	Family Spheniscidae	
	Family Gaviidae Family Procellariidae	
Order PHOENICOPTERIFORMES	Tamily Frocellatiluae	
Phoenicopteridae is not treated as an Order by	- See Order CICONIIFORMES	- See Order CICONIIFORMES
Sibley and Monroe; it appears as the Family	OCC OTACL OTOOIVIII OTTIVILO	OCC OTAGE OTOOTHIN OTHER
Phoenicopteridae within the Order		
CICONIIFORMES		

Taxonomic treatment according to	Taxonomic treatment according to Sibley &	Taxonomic treatment according to
Morony, Bock & Farrand	Monroe	Dickinson 2003 and 2005
Order ANSERIFORMES	Order ANSERIFORMES	
Infraorder Anhimides	Family Anatidae	Family Anatidae
Superfamily Anseranatoidea	Subfamily Anseranatidae	Subfamily Dendrocygninae
Family Anseranatidae	Subfamily Anserinae	Subfamily Anserinae
	Subfamily Anatinae	Subfamily Stictonettinae
Infraorder Anserides		Subfamily Tadorninae
Family Dendrocygnidae Family Anatidae		Subfamily Anatinae
Subfamily Oxyurinae		
Subfamily Stictonettinae		- See Order GALLIFORMES
Subfamily Cygninae		Coo Gradi di Illia
Subfamily Anatinae		
,		
Order FALCONIFORMES		Order FALCONIFORMES
Family Cathartidae		
Family Pandionidae	- See Order CICONIIFORMES	Much ado has been made of the
Family Accipitridae		nonmonophyly of the falconiforms (Ligon
Family Sagittariidae		1967; Sibley & Ahlquist 1990; Avise et al.
		1994). This has mostly concerned the
		placement of the cathartids with respect to storks, although the evidence supporting
		the various alternative hypotheses has not
		been very compelling. The weight of the
		morphological evidence, at least, argues for
		falconiform monophyly. Previous ideas that
		owls (family Strigidae) and falconiforms
		(family Falconidae) might be related seem
		incorrect.

Taxonomic treatment according to Morony, Bock & Farrand	Taxonomic treatment according to Sibley & Monroe	Taxonomic treatment according to Dickinson 2003 and 2005 ⁱ
Order GALLIFORMES	Order GALLIFORMES	Superorder/Parvclass Galloanserae
Family Megapodiidae	Family Phasianidae	
Family Cracidae	Family Numinidae	Within the Neognathae, the Galloanserae
Family Phasianidae	Family Odontophoridae	(Galliformes and Anseriformes) are
Family Opisthocomidae		considered the sister-group of all other birds (the Neoaves). Relationships within the anseriforms, at least at higher taxonomic levels, do not appear to be too controversial, and both morphological and molecular data support at least a tripartite pattern of relationships for galliforms: (megapodiidae (Cracidae + phasianoids).
Order GRUIFORMES	Order GRUIFORMES	Order GRUIFORMES*
Family Mesitornithidae	Family Eurypygidae	
Family Turnicidae	Family Otitidae	* This list follows the detailed morphological
Family Pedionomidae	Family Gruidae	analysis of Livezey (1998), although a
Family Gruidae	Family Heliornithidae	broader comparison of cranial characters
Family Aramidae	Family Psophiidae	alone (Livezey & Zusi 2001) did not result in
Family Psophiidae	Family Cariamidae	gruiform monophyly. The placement of the
Family Rallidae	Family Rhynochetidae	otitids id particularly uncertain.
	Family Rallidae	
	Family Mesitornithidae	

Taxonomic treatment according to Morony, Bock & Farrand	Taxonomic treatment according to Sibley & Monroe	Taxonomic treatment according to Dickinson 2003 and 2005 ⁱ
Order CHARADRIIFORMES		Order CHARADRIIFORMES*
Family Jacanidae		
Family Rostratulidae		* Current evidence supports the hypothesis
Family Dromadidae		that virtually all the groups traditionally
Family Haematopodidae		included in the charadriiforms comprise a
Family Ibidorhynchidae		monophyletic lineage (Sibley & Ahlquist
Family Recurvirostridae		1990; Livezey & Zusi 2001) the major
Family Heliornithidae		uncertainty being the turnicids. Moreover
Family Rhynochetidae	0 0 1 010011115051450	charadriforms do not represent the primitive
Family Eurypygidae	- See Order CICONIIFORMES	neornithine morphotype.
Family Cariamidae		
Family Otitidae		
Family Burhinidae		
Family Glareolidae		
Family Charadriidae		
Family Scolopacidae		
Family Thinocoridae		
Family Chionididae		
Suborder Lari		
Family Stercorariidae		
Family Laridae Family Rynchopidae		
Suborder Alcae		
0.000.000.000.000		
Family Alcidae		
Order COLUMBIFORMES	Order COLUMBIFORMES	Not discussed, either because there is
Family Pteroclididae	Family Raphidae	relatively little dispute over relationships or
Family Raphidae	Family Columbidae	because there has been no new
Family Columbidae		information ⁱⁱ about relationship published in
		recent years.
Order PSITTACIFORMES	Order PSITTACIFORMES	Not discussed, either because there is
Family Loriidae	Family Psittacidae	relatively little dispute over relationships or
Family Cacatuidae		because there has been no new information
Family Psittacidae		about relationship published in recent years.
		·

Taxonomic treatment according to	Taxonomic treatment according to Sibley &	Taxonomic treatment according to
Morony, Bock & Farrand	Monroe	Dickinson 2003 and 2005
Order CORACIIFORMES	Order CORACIIFORMES	Order CORACIIFORMES
Family Alcedinidae	Family Coraciidae	
Family Todidae	Family Brachypteraciidae	Most recent work suggests that this group is
Family Momotidae	Family Leptosomatidae	related to Coliifomes, Trogoniformes and
Family Meropidae	Family Momotidae	Galbulae in some way or another, often in
Family Coraciidae	Family Todidae	association with the Pici and/or the
Family Brachypteraciidae	Family Alcedinidae	Passeriformes. However the data are
Family Leptosomatidae		insufficient to resolve their relationships
Family Upupidae	Family Dacelonidae	clearly. The coraciiforms, as traditionally
Family Phoeniculidae	Family Cerylidae	constituted, are apparently separable into at
Family Bucerotidae	Family Meropidae	least two major groups that may or may not
		be related. At present it is difficult to say
		what the molecular data mean, since most
		studies have had restricted taxon and
		character samples. Finally, even
		morphology breaks up the coraciiforms.
		Clearly, much work is needed.

Taxonomic treatment according to	Taxonomic treatment according to Sibley &	Taxonomic treatment according to
Morony, Bock & Farrand	Monroe	Dickinson 2003 and 2005
Order PASSERIFORMES	Order PASSERIFORMES	Order PASSERIFORMES
Family Muscicapidae	Family Muscicapidae	The passeridans are a very large
Subfamily Silviinae	Family Tyrannidae	monophyletic group whoe relationships, at
Family Hirundinidae	Family Silviidae	least at the higher taxonomic levels, are
Family Tyrannidae	Family Hirundinidae	becoming better understood as DNA
Family Emberizidae	Family Fringillidae	sequences accumulate. At the same time,
Family Icteridae	Subfamily Emberizinae	these new studies make it clear that many
	Tribe Icterini	traditional families are not monophyletic,
		and that a fuller understanding of
		passeridan phylogeny will only unfold as
		more and more of its diversity is sampled
		genetically.
		Although a number or nodes in the nuclear
		gene passeridan tree are not well supported – especially within the muscicapoids and
		passeroids – these results are more
		consistent with the DNA hybridization
		experiments of Sheldom & Gill (1996),
		which were undertaken with stringent
		analytical procedures, than with those of
		Sibley & Ahlquist (1990). Thus, Sheldom &
		Gill (1996), unlike Sibley & Ahlquist, found
		the alaudids were not passeroids but
		sylvioids, and troglodytes, sittids, and
		certhiids went with muscicapoids rather
		than sylvioids.

¹ Dickinson does not arrange the list of species within a series of hierarchies (it uses two hierarchical levels, the family and the subfamily) because knowledge of avian phylogenetic relationships is still clouded with uncertainties and any decision to recognize a complex classificatory hierarchy would have resulted in numerous arbitrary choices.

ⁱⁱ The Howard & Moore Checklist (Dickinson) has been closely based on the sequence adopted for Peters Checklist since 1980.

Annex 3 Taxonomic treatment and nomenclature for bird species included in the Order Procellariiformes - Species covered by CMS and ACAP

Species currently listed under CMS (Appendix I & II) ¹	Species currently listed under ACAP (Annex I)	Nomenclature according to Dickinson 2003/05 ²	Common name
FAMILY DIOMEDEIDAE - A	LBATROSSES		
Diomedea exulans (II)	1 Diomedea exulans	Diomedea exulans	Wandering Albatross
	2 Diomedea dabbenena	Diomedea exulans exulans* *Includes dabbenena	Tristan Albatross
	3 Diomedea antipodensis	Diomedea exulans antipodensis	Antipodean Albatross
Diomedea amsterdamensis (I)	4 Diomedea amsterdamensis	Diomedea exulans amsterdamensis	Amsterdam Albatross
Diomedea epomophora (II)	5 Diomedea epomophora	Diomedea epomophora epomophora	Southern Royal Albatross
	6 Diomedea sanfordi	Diomedea epomophora sanfordi	Northern Royal Albatross
Diomedea albatrus (I)		Phoebastria albatrus	Short Tailed Albatross
Diomedea nigripes (II)		Phoebastria nigripes	Black Footed Albatross
Diomedea immutabilis (II)		Phoebastria immutabilis	Laysan Albatross
Diomedea irrorata (II)	7 Phoebastria irrorata	Phoebastria irrorata	Waved Albatross
Diomedea cauta (II)	8 Thalassarche cauta	Thalassarche cauta	Shy Albatross
	9 Thalassarche steadi	Thalassarche cauta steadi	White-capped Albatross
salvini and eremita are considered group-names within <i>D.cauta</i>	10 Thalassarche salvini	Thalassarche cauta salvini	Salvin's Albatross
	11 Thalassarche eremita	Thalassarche cauta eremita	Chatham Albatross
Diomedea bulleri (II)	12 Thalassarche bulleri	Thalassarche bulleri	Buller's Albatross
Diomedea chrysostoma (II)	13 Thalassarche chrysostoma	Thalassarche chrysostoma	Grey-headed Albatross
Diomedea melanophris (II)	14 Thalassarche melanophrys	Thalassarche melanophrys	Black-browed Albatross

¹ Nomenclature according to Sibley, C.G. and Monroe, B.L. 1990. Distribution and Taxonomy of Birds of the World. ² Dickinson, E.D. 2003/2005. The Howard and Moore Complete Checklist of the Birds of the World.

Species currently listed under CMS (Appendix I & II) ³	Species currently listed under ACAP (Annex I)	Nomenclature according to Dickinson 2003/05 ⁴	Common name
	15 Thalassarche impavida	Thalassarche melanophrys impavida	Campbell Albatross
	16 Thalassarche carteri	Thalassarche chlororhynchos ⁵	Indian Yellow-nosed Albatross
Diomedea chlororhynchos(II)	17 Thalassarche chlororhynchos	Thalassarche chlororhynchos	Atlantic Yellow-nosed Albatross
Phoebetria fusca(II)	18 Phoebetria fusca	Phoebetria fusca	Sooty Albatross
Phoebetria palpebrata(II)	19 Phoebetria palpebrata	Phoebetria palpebrata	Light-mantled Albatross
FAMILY PROCELLARIIDAE	- PETRELS		•
Macronectes giganteus(II)	20 Macronectes giganteus	Macronectes giganteus	Southern Giant-petrel
Macronectes halli(II)	21 Macronectes halli	Macronectes halli	Northern Giant-petrel
This includes Procellaria aequinoctialis (II) *This includes Procellaria aequinoctialis conspicillata, formerly listed as Procellaria conspicillata	22 Procellaria aequinoctialis	Procellaria aequinoctialis	White-chinned Petrel
	23 Procellaria conspicillata	Procellaria aequinoctialis conspicillata	Spectacled Petrel
Procellaria parkinsoni(II)	24 Procellaria parkinsoni	Procellaria parkinsoni	Black Petrel
Procellaria westlandica(II)	25 Procellaria westlandica	Procellaria westlandica	Westland Petrel
Procellaria cinerea(II)	26 Procellaria cinerea	Procellaria cinerea	Grey Petrel
Pterodroma atrata(I)		Pterodroma atrata	Henderson Petrel
Pterodroma cahow(I)		Pterodroma cahow	Bermuda Petrel
Pterodroma phaeopygia(I)		Pterodroma phaeopygia phaeopygia	Dark-rumped Petrel
Pterodroma sandwichensis*(I) Formerly included in Pterodroma phaeopygia (s.l.)		Pterodroma phaeopygia sandwichensis	Dark-rumped Petrel
Puffinus creatopus(I)		Puffinus creatopus	Pink-footed Shearwater

³ Nomenclature according to Sibley, C.G. and Monroe, B.L. 1990. Distribution and Taxonomy of Birds of the World.

⁴ Dickinson, E.D. 2003/2005. The Howard and Moore Complete Checklist of the Birds of the World.

⁵ This taxon is considered a subspecies of *Thalassarche chlororhynchos* (*sensu lato*) by some authors. According to Dickinson T. *chlororhynchos* has two subspecies (listed by Carboneras, C.,1992) but the correct nomenclature of these forms is not resolved.

Puffinus mauretanicus(I)		Puffinus mauretanicus	Balearic Shearwater			
FAMILY PELECANOIDIDAE - DIVING PETRELS						
Pelecanoides garnotii(I)		Pelecanoides garnotii	Peruvian Diving Petrel			

Justification of taxonomic decisions

(brief summary of 2006, 2007 and 2008 reports of the ACAP Taxonomy WG for species covered by Annex I (ACAP) and Appendices I&II (CMS):

Diagnosability

Data are diagnosable if:

- A) "Individuals of at least one age/sex can be distinguished from the same age/sex class of all other taxa by at least one qualitative difference. This means that the individuals will possess one or more discrete characters that members of the other taxa lack.

 Qualitative differences refer to presence/absence of a feature (as opposed to discontinuity in a continuously varying character)."
- B) "At least one age/sex class is separated by a complete discontinuity in at least one continuously varying character (e.g. wing length) from the same age/sex class of otherwise similar taxa. By complete discontinuity we mean that there is no overlap with regard to the character in question between two taxa." To detect a discontinuity the number of individuals compared should be based on sound judgment.
- C) "If there is no single diagnostic character we regard a taxon as statistically diagnosable if individuals of at least one age/sex class can be clearly distinguished from individuals of all other taxa by a combination of two or three functionally independent characters." Body measurements are not considered independent characters.

Second Meeting of the ACAP Advisory Committee, June 2006

8/9. Thalassarche cauta and Thalassarche steadi

These taxa satisfy two of three diagnosability criteria in use by ACAP, and have been shown to be genetically distinct and behave differently; therefore the 2006 taxonomy WG recommended that these taxa warrant specific status.

Third Meeting of the ACAP Advisory Committee, June 2007

5/6. Diomedea epomophora and Diomedea sanfordi

These taxa satisfy the accepted ACAP diagnosability criteria. The 2007 taxonomy WG currently recommends that these taxa continue to be recognized as separate species but recognizes that this is a case where more data are required.

16/17. Thalassarche chlororhynchos and Thalassarche carteri

These taxa satisfy the accepted ACAP diagnosability criteria. Following Robertson & Nunn, recent wide-ranging works on Procellaniformes (Brooke 2004; Onley & Scofield 2007) and the current taxonomy of BirdLife International (2007), the 2007 taxonomy WG recommends that these taxa continue to be recognized as separate species.

Fourth Meeting of the ACAP Advisory Committee, August 2008

1/3/4. Diomedea exulans/amsterdamensis and Diomedea antipodensis

These taxa satisfy the diagnosability criteria in use by ACAP, although *D.amsterdamensis* and *D. antipodensis* potentially can share bill characters which provide a discontinuity with *D. exulans*. However, molecular data suggest that *D. antipodensis* is a sister taxon to *D.amsterdamensis/exulans*. The 2007/08 Taxonomy WG recommended that *D. exulans and D.amsterdamensis should be retained as two full species*.

- (assessment of *D.dabbenena/exulans* taxon pair was not completed in 2008)

14/15. Thalassarche melanophrys and Thalassarche impavida

These taxa satisfy the accepted ACAP diagnosability criteria, and have been shown to be genetically distinct; although they are very closely related and successful hybridisation may be possible; therefore these taxa are recognized as two separated species.

24/25. Procellaria parkinsoni and Procellaria westlandica

These taxa satisfy the accepted ACAP diagnosability criteria, and have been shown to be genetically distinct and behave differently; therefore these taxa warrant specific status.

14. Thalassarche melanophrys

T. melanophrys: proposed conservation of original spelling: *T. melanophris*, this case will be assessed by the International Commission on Zoological Nomenclature, and the decision will be reviewed by the WG.