

 <p>Agreement on the Conservation of Albatrosses and Petrels</p>	<p><b>Seventh Meeting of the Seabird Bycatch Working Group</b></p> <p><i>La Serena, Chile, 2 - 4 May 2016</i></p> <p><b>Updated scores for at-sea threats and migratory nature of Albatross and Petrel species</b></p> <p><b><i>Mark Tasker, Ken Morgan, Igor Debski</i></b></p>
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### **SUMMARY**

At MoP5, revised criteria for the guiding the process for listing and de-listing species on Annex 1 were adopted. This followed discussion and agreement on the issue at AC8. SBWG6 agreed that it would be a timely opportunity to review the scores for at-sea threats for each of the species, and where appropriate the scores for the 'migratory' criterion. Scores for these two sets of scores were reviewed and suggestions for changes are made. Most changes are made on the basis of revised scientific findings.

### **RECOMMENDATION**

SBWG7 to consider the suggested revisions and if appropriate, make a Recommendation to the Advisory Committee.

## **1. BACKGROUND**

At AC3, 129 species of Procellariiformes were reviewed using a number of categories in order to provide Parties with an approximate priority for new species that might be considered for listing in Annex 1 of ACAP. At AC8, followed by MoP5, revised criteria for the guiding the process for listing and de-listing species on Annex 1 were adopted. Two of the criterion relate to SBWG's work: migratory nature and at-sea treats. This paper reviews these two criteria and provides recommended updates for these two criteria (Annex 1).

## **2. METHOD**

### **2.1. Migratory nature**

The scores used in AC3 Doc18 (and MoP5 Doc 21) were based on the following:

*Species occurs in territorial/EEZ waters of more than three states = 4; species occurs in territorial/EEZ waters of three states = 3; species occurs in territorial/EEZ waters of two states = 2; species occurs in only one state's waters but also visits international waters = 1; species does not leave territorial/EEZ waters of a single state = 0.*

There has been no call to change this scoring method, so updates to this criterion were based on a review of the relevant maps in Handbook of the Birds of the World (HBW - chosen as this is a consistent source), updated where there is more recent information from e.g. tagging studies. It should be noted that vagrant records are not included in the HBW maps of species range. It might be noted that there is no need to include the word “territorial” in this criterion, as all territorial waters are enclosed within EEZs. We note that extended Continental Shelf claims are not relevant as these claims do not include superjacent waters.

## **2.2. At-sea conservation threats**

The scores used in AC3 Doc18 (and MoP5 Doc 21) were based on the following:

*Species known to face severe threats in international waters and/or territorial/EEZ waters of at least two states = 4; species known to face a detectable level of threat in international waters and/or territorial/EEZ waters of at least two states = 3; species known to face a severe level of threat in international waters and/or territorial/EEZ waters of at least one state = 2; species known to face a detectable level of threat in international waters and/or territorial/EEZ waters of at least one state = 1; species not known to face at-sea threats = 0.*

The categorisation of these scores were somewhat more difficult. The term “threat” has not been defined; It is unclear what is severe as opposed to detectable, and it is unclear how to deal with situations where there is knowledge in one state’s waters, but no knowledge in an adjacent state’s waters, or if the levels of threat differ between neighbouring state’s waters. It is thus difficult to ensure objectivity and consistency for this category. On a broader point, in many cases there is no information to judge whether or not there are threats to species at sea – these cases are all scored 0, implying that lack of knowledge means a lower conservation priority. Further thought would be useful on this point.

## **3. Wider considerations**

ACAP has not yet adopted an agreed taxonomic list for the Procellariiformes. The Taxonomic Working Group is scheduled to provide a paper on considerations in this respect during the current triennium. Annex 1 is based on the taxonomy used in AC3 Doc18 (and MoP5 Doc 21) with the correction of one accidental omission (common diving petrel) and the addition of one widely accepted split (Monteiro’s storm petrel). Should a revised taxonomy be agreed by ACAP, then that taxonomy should be used in the evaluation in the future.

This paper only considered revisions to the scores of two of the criteria; plainly if a revised prioritisation is to be carried out, then the other criteria need to be reviewed. There are clear overlaps and duplications in the criteria so it may also be appropriate to consider whether the criteria remain the most suitable, or if the formula used to weight the various scores when deriving an overall prioritisation needs to be revisited.

## ANNEX 1.

Scores obtained using the scoring system developed in AC3 Doc 18 (repeated in MoP5 Doc 21) to assess the suitability of 129 procellariiform species for inclusion on Annex 1 of the Agreement, sorted by taxonomic order. Asterisks and red font indicate species already listed on Annex 1 of ACAP. Suggested changes are highlighted (original scores in brackets). The blue highlighted rows indicate species not included in AC3 Doc 18.

Common name	Scientific name	IUCN status	CMS listing	Endemism	Migratory	Land-based threats	At-sea threats	Total	Weighted Total
Wandering Albatross*	<i>Diomedea exulans</i>				4		4		
Antipodean Albatross*	<i>D. antipodensis</i>				3		4		
Amsterdam Albatross*	<i>D. amsterdamensis</i>				1		2		
Tristan Albatross*	<i>D. dabbenena</i>				4		4		
Northern Royal Albatross*	<i>D. sanfordi</i>				4		4		
Southern Royal Albatross*	<i>D. epomophora</i>				4		4		
Waved Albatross*	<i>Phoebastria irrorata</i>				2		4		
Short-tailed Albatross*	<i>P. albatrus</i>				4		4		
Black-footed Albatross*	<i>P. nigripes</i>				4		4		
Laysan Albatross*	<i>P. immutabilis</i>				4		4		
Black-browed Albatross*	<i>Thalassarche melanophrys</i>				4		4		
Campbell Albatross*	<i>T. impavida</i>				(2) 4		4		
Shy Albatross*	<i>T. cauta</i>				4		4		
White-capped Albatross*	<i>T. steadi</i>				4		4		
Chatham Albatross*	<i>T. eremita</i>				4		4		
Salvin's Albatross*	<i>T. salvini</i>				4		4		
Grey-headed Albatross*	<i>T. chrysostoma</i>				4		4		
Atlantic Yellow-nosed Albatross*	<i>T. chlororhynchos</i>				4		4		

Common name	Scientific name	IUCN status	CMS listing	Endemism	Migratory	Land-based threats	At-sea threats	Total	Weighted Total
Indian Yellow-nosed Albatross*	<i>T. carteri</i>				4		4		
Buller's Albatross*	<i>T. bulleri</i>				4		4		
Sooty Albatross*	<i>Phoebastria fusca</i>				4		4		
Light-mantled Albatross*	<i>P. palpebrata</i>				4		4		
Southern Giant Petrel*	<i>Macronectes giganteus</i>				4		4		
Northern Giant Petrel*	<i>M. halli</i>				4		4		
Northern Fulmar	<i>Fulmarus glacialis</i>				4		4		
Southern Fulmar	<i>Fulmarus glacialoides</i>				4		0		
Antarctic Petrel	<i>Thalassoica antarctica</i>				4		0		
Cape Petrel	<i>Daption capense</i>				4		1		
Snow Petrel	<i>Pagodroma nivea</i>				(3) 4		0		
Blue Petrel	<i>Halobaena caerulea</i>				4		0		
Broad-billed Prion	<i>Pachyptila vittata</i>				4		0		
Salvin's Prion	<i>Pachyptila salvini</i>				4		0		
Antarctic Prion	<i>Pachyptila desolata</i>				4		0		
Slender-billed Prion	<i>Pachyptila belcheri</i>				4		0		
Fairy Prion	<i>Pachyptila turtur</i>				4		0		
Fulmar Prion	<i>Pachyptila crassirostris</i>				2		0		
Kerguelen Petrel	<i>Lugensa brevirostris</i>				4		0		
Great-winged Petrel	<i>Pterodroma macroptera</i>				4		0		
White-headed Petrel	<i>Pterodroma lessonii</i>				4		0		
Atlantic Petrel	<i>Pterodroma incerta</i>				4		0		
Providence Petrel	<i>Pterodroma solandri</i>				4		0		
Magenta Petrel	<i>Pterodroma magentae</i>				(1) 4		0		

Common name	Scientific name	IUCN status	CMS listing	Endemism	Migratory	Land-based threats	At-sea threats	Total	Weighted Total
Murphy's Petrel	<i>Pterodroma ultima</i>				4		0		
Soft-plumaged Petrel	<i>Pterodroma mollis</i>				4		0		
Zino's Petrel	<i>Pterodroma madeira</i>				(1) 4		0		
Fea's Petrel	<i>Pterodroma feae</i>				4		0		
Jamaican Petrel	<i>Pterodroma caribbaea</i>				2		0		
Bermuda Petrel	<i>Pterodroma cahow</i>				(3) 2		2		
Black-capped Petrel	<i>Pterodroma hasitata</i>				4		0		
Juan Fernandez Petrel	<i>Pterodroma externa</i>				4		0		
Kermadec Petrel	<i>Pterodroma neglecta</i>				4		0		
Herald Petrel	<i>Pterodroma heraldica</i>				4		0		
Trindade Petrel	<i>Pterodroma arminjoniana</i>				(3) 4		0		
Henderson Petrel	<i>Pterodroma atrata</i>				3		0		
Phoenix Petrel	<i>Pterodroma alba</i>				4		0		
Barau's Petrel	<i>Pterodroma barau</i>				4		0		
Hawaiian Petrel	<i>Pterodroma sandwichensis</i>				4		0		
Galapagos Petrel	<i>Pterodroma phaeopygia</i>				4		0		
Mottled Petrel	<i>Pterodroma inexpectata</i>				4		0		
White-necked Petrel	<i>Pterodroma cervicalis</i>				4		0		
Black-winged Petrel	<i>Pterodroma nigripennis</i>				4		0		
Chatham Island Petrel	<i>Pterodroma axillaris</i>				(1) 4		0		
Bonin Petrel	<i>Pterodroma hypoleuca</i>				4		0		
Gould's Petrel	<i>Pterodroma leucoptera</i>				4		0		
Collared Petrel	<i>Pterodroma brevipes</i>				4		0		
Cook's Petrel	<i>Pterodroma cookii</i>				4		0		

Common name	Scientific name	IUCN status	CMS listing	Endemism	Migratory	Land-based threats	At-sea threats	Total	Weighted Total
De Filippi's Petrel	<i>Pterodroma defilippiana</i>				1		0		
Stejneger's Petrel	<i>Pterodroma longirostris</i>				4		0		
Pycroft's Petrel	<i>Pterodroma pycrofti</i>				4		0		
Mascarene Petrel	<i>Pseudibulweria aterrima</i>				1		0		
Beck's Petrel	<i>Pseudobulweria becki</i>				2		0		
Tahiti Petrel	<i>Pseudobulweria rostrata</i>				4		0		
Fiji Petrel	<i>Pseudobulweria macgillivrayi</i>				1		0		
Grey Petrel*	<i>Procellaria cinerea</i>				4		4		
White-chinned Petrel*	<i>Procellaria aequinoctialis</i>				4		4		
Spectacled Petrel*	<i>Procellaria conspicillata</i>				4		4		
Black Petrel*	<i>Procellaria parkinsoni</i>				4		4		
Westland Petrel*	<i>Procellaria westlandica</i>				(3) 4		4		
Streaked Shearwater	<i>Calonectris leucomelas</i>				4		(0) 1		
Cory's Shearwater	<i>Calonectris diomedea</i>				4		3		
Cape Verde Shearwater	<i>Calonectris edwardsii</i>				(3) 4		3		
Christmas Shearwater	<i>Puffinus nativitatis</i>				4		0		
Wedge-tailed Shearwater	<i>Puffinus pacificus</i>				4		3		
Buller's Shearwater	<i>Puffinus bulleri</i>				4		0		
Manx Shearwater	<i>Puffinus puffinus</i>				4		0		
Yelkouan Shearwater	<i>Puffinus yelkouan</i>				4		3		
Balearic Shearwater*	<i>Puffinus mauretanicus</i>				4		3		
Black-vented Shearwater	<i>Puffinus opisthomelas</i>				(2) 3		0		
Newell's Shearwater	<i>Puffinus newelli</i>				3		0		
Townsend's Shearwater	<i>Puffinus auricularis</i>				1		0		

Common name	Scientific name	IUCN status	CMS listing	Endemism	Migratory	Land-based threats	At-sea threats	Total	Weighted Total
Fluttering Shearwater	<i>Puffinus gavia</i>				2		(0) 1		
Hutton's Shearwater	<i>Puffinus huttoni</i>				2		1		
Audubon's Shearwater	<i>Puffinus lherminieri</i>				4		0		
Heinroth's Shearwater	<i>Puffinus heinrothi</i>				2		0		
Little Shearwater	<i>Puffinus assimilis</i>				(4) 3		0		
Sooty Shearwater	<i>Puffinus griseus</i>				4		4		
Short-tailed Shearwater	<i>Puffinus tenuirostris</i>				4		4		
Pink-footed Shearwater	<i>Puffinus creatopus</i>				4		3		
Flesh-footed Shearwater	<i>Puffinus carneipes</i>				4		4		
Great Shearwater	<i>Puffinus gravis</i>				4		3		
Bulwer's Petrel	<i>Bulweria bulwerii</i>				4		0		
Jouanin's Petrel	<i>Bulweria fallax</i>				4		0		
Wilson's Storm Petrel	<i>Oceanites oceanicus</i>				4		0		
New Zealand Storm Petrel	<i>Oceanites maorianus</i>				(0) 2		0		
White-vented Storm Petrel	<i>Oceanites gracilis</i>				4		0		
Grey-backed Storm Petrel	<i>Garrodia nereis</i>				4		0		
White-faced Storm Petrel	<i>Pelagodroma marina</i>				4		0		
White-bellied Storm Petrel	<i>Fregetta grallaria</i>				4		0		
Black-bellied Storm Petrel	<i>Fregetta tropica</i>				4		0		
Polynesian Storm Petrel	<i>Nesofregetta fuliginosa</i>				4		0		
European Storm Petrel	<i>Hydrobates pelagicus</i>				4		0		
Least Storm Petrel	<i>Halocyptena microsoma</i>				4		0		
Wedge-rumped Storm Petrel	<i>Oceanodroma tethys</i>				4		0		
Band-rumped Storm Petrel	<i>Oceanodroma castro</i>				4		0		

Common name	Scientific name	IUCN status	CMS listing	Endemism	Migratory	Land-based threats	At-sea threats	Total	Weighted Total
Monteiro's Storm Petrel	<i>Oceanodroma monteiroi</i>				1		0		
Swinhoe's Storm Petrel	<i>Oceanodroma monorhis</i>				4		0		
Leach's Storm Petrel	<i>Oceanodroma leucorhoa</i>				4		0		
Guadalupe Storm Petrel	<i>Oceanodroma macrodactyla</i>				(2) 1		0		
Markham's Storm Petrel	<i>Oceanodroma markhami</i>				4		0		
Tristram's Storm Petrel	<i>Oceanodroma tristrami</i>				3		0		
Black Storm Petrel	<i>Oceanodroma melania</i>				4		0		
Matsudaira's Storm Petrel	<i>Oceanodroma matsudairae</i>				4		0		
Ashy Storm Petrel	<i>Oceanodroma homochroa</i>				2		0		
Hornby's Storm Petrel	<i>Oceanodroma hornbyi</i>				3		0		
Fork-tailed Storm Petrel	<i>Oceanodroma furcata</i>				4		0		
Peruvian Diving Petrel	<i>Pelecanoides gannotti</i>				(3) 2		0		
Magellanic Diving Petrel	<i>Pelecanoides magellani</i>				(2) 3		0		
South Georgia Diving Petrel	<i>Pelecanoides georgicus</i>				4		0		
Common Diving Petrel	<i>Pelecanoides urinatrix</i>				4		0		