Appendix 6a. The congregatory waterbird species (*sensu* Rose and Scott 1997) that occur regularly in the Afrotropics, together with the corresponding '1% of population' thresholds that govern selection of IBAs under the A4i criterion. The derivation of the 1% figures is explained in Appendix 6b.

A – 1% estimate for a species which, in the Afrotropics, is exclusively either a resident or a non-breeding visitor.

B and **C** – 1% estimates for a species which, in the Afrotropics, is both a resident and a seasonal (usually non-breeding) visitor. Threshold **B** applies to the resident (breeding) population only and is, therefore, applicable (mostly) during the boreal summer. Threshold **C** applies to the combined resident and visiting populations and is, therefore, applicable (mostly) during the boreal winter.

All population thresholds are given as numbers of individuals. To convert between individuals and pairs, a muliplying/dividing factor of 3 was used.

Scientific name English name A B C Tachybaptus ruficollis Little Grebe 500 — — Tachybaptus rufolavatus Alotra Grebe 1 — — Tachybaptus pelzelnii Madagascar Grebe 75 — — Podiceps cristatus Creat Crested Grebe 250 — — Podiceps nigricollis Black-necked Grebe 250 — — Pelecanus rufescens Pink-backed Pelican 1,000 — — Phalacrocorax coracorax coracorax Ceromorant 5,000 — — Phalacrocorax carbo White-breasted Cormorant 5,000 — — Phalacrocorax carbo White-breasted Cormorant 5,000 — — Phalacrocorax carbo Keguelen Shag 330 — — Phalacrocorax carbo Keguelen Shag 330 — — Phalacrocorax carbo Crozet Shag — 5 — Andiscorosa vatericeps Crozet Shag —			1	% thresh	olds
Tachybaptus rufolavatus Alaotra Grebe 1 — — Tachybaptus petzelnii Madagascar Grebe 75 — — Podiceps cristatus Great Crested Grebe 50 — — Pelecanus onocrotalus White Pelican 1,800 — — Pelecanus onocrotalus Pink-backed Pelican 1,000 — — Phalacrocorax coronatus Reed Cormorant 5,000 — — Phalacrocorax carbo White-breasted Cormorant 5,000 — — Phalacrocorax carbo White-breasted Cormorant 5,000 — — Phalacrocorax carbo White-breasted Cormorant 5,000 — — Phalacrocorax carbo Kerguelen Shag 330 — — Phalacrocorax carbo Kerguelen Shag 330 — — Phalacrocorax carbo Marte Some — — Andagascar Bromant Some — — — Andagascar Bromant Some —	Scientific name	English name	A	В	C
Tachybaptus pelzelnii Madagascar Grebe 75 — Podiceps cristatus Great Crested Grebe 50 — Podiceps nigricollis Black-necked Grebe 250 — Pelecanus nufescens Pink-backed Pelican 1,800 — Phalacrocorax africanus Reed Cormorant 5,000 — Phalacrocorax africanus Reed Cormorant 5,000 — Phalacrocorax carbo White-breasted Cormorant 5,000 — Phalacrocorax carbo White-breasted Cormorant 5,000 — Phalacrocorax carbo Corpe Cormorant 5,000 — Phalacrocorax carbos Cope Cormorant 5,000 — Phalacrocorax carbos Cope Cormorant 5,000 — Phalacrocorax carbos Cope Cormorant 5,000 — Phalacrocorax carbos Cape Cormorant 5,000 — Phalacrocorax carbos Cape Cormorant 5,000 — Phalacrocorax carbos Cape Cormorant 5,000 — Phalacrocorax <	Tachybaptus ruficollis	Little Grebe	500	_	_
Podiceps cristatus Great Crested Grebe 50 — Podiceps nigricollis Black-necked Grebe 250 — Pelecanus onocrotalus White Pelican 1,800 — Phalacrocorax africanus Reed Cormorant 5,000 — Phalacrocorax coronatus Crowned Cormorant 180 — Phalacrocorax carbo White-breasted Cormorant 5,000 — Phalacrocorax carbo White-breasted Cormorant 5,500 — Phalacrocorax carbo White-breasted Cormorant 5,000 — Phalacrocorax carbo White-breasted Cormorant 5,000 — Phalacrocorax carbo Corver Shag 25 — Phalacrocorax (africeps) — — Phalacrocorax (africeps) — — Part (accordical carboratical carboratical carboratical c	Tachybaptus rufolavatus	Alaotra Grebe	1	_	_
Podiceps nigricollis Black-necked Grebe 250 — Pelecanus oncrotalus White Pelican 1,800 — Pelecanus rufescens Pink-backed Pelican 1,000 — Phalacrocorax coronatus Crowned Cormorant 5,000 — Phalacrocorax carbo White-breasted Cormorant 5,000 — Phalacrocorax carbo White-breasted Cormorant 5,000 — Phalacrocorax carbo Cape Cormorant 5,000 — Phalacrocorax carbos Cape Cape Cormorant 5,000 — Phalacrocorax carbos Daract Cape Cape Cape Cape Cape Cape Cape Cape	Tachybaptus pelzelnii	Madagascar Grebe	75	_	_
Pelecanus nufescens White Pelican 1,800 — — Pelecanus rufescens Pink-backed Pelican 1,000 — — Phalacrocorax africanus Reed Cormorant 5,000 — — Phalacrocorax coronatus Crowned Cormorant 5,000 — — Phalacrocorax carbo White-breasted Cormorant 5,000 — — Phalacrocorax carbos Cope Cormorant 5,000 — — Phalacrocorax carbos Cape Cormorant 5,000 — — — — — —	Podiceps cristatus	Great Crested Grebe	50	_	_
Pelecanus rufescens Pink-backed Pelican 1,000 — Phalacrocorax africanus Reed Cormorant 5,000 — Phalacrocorax coronatus Crowned Cormorant 53 — Phalacrocorax carbo White-breasted Cormorant 5,000 — Phalacrocorax carbos White-breasted Cormorant 5,000 — Phalacrocorax carbos Kerguelen Shag 330 — Phalacrocorax verrucous Kerguelen Shag 330 — Phalacrocorax verrucous Kerguelen Shag 330 — Anhinga rufa Darter 500 — — Egretta vinaceigula Slaty Egret 80 — — Egretta desisca Black Egret 500 — — Egretta gularis Reef Heron 500 — — Egretta gularis Reef Heron 500 — — Ardea dimorpha Dimorphic Egret 100 — — Egretta dimorpha Porton 5,000 7,000	Podiceps nigricollis	Black-necked Grebe	250	_	_
Phalacrocorax africanus Reed Cormorant 5,000 — — Phalacrocorax coronatus Crowned Cormorant 53 — — Phalacrocorax neglectus Bank Cormorant 1,80 — — Phalacrocorax carbo White-breasted Cormorant 5,500 — — Phalacrocorax carbos Cape Cormorant 5,500 — — Phalacrocorax carbos Kerguelen Shag 330 — — Phalacrocorax (atriceps) Cozet Shag 25 — — Bank Egreta 500 — — — Anhinga rufa Darter 500 — — Egretta ardesiaca Black Egret 500 — — Egretta garzetta Little Egret 500 — — Egretta gularis Reef Heron 500 — — Casmerodius albus Great White Egret 500 — — Ardea dimorpha Dimorphic Egret 250 — —	Pelecanus onocrotalus	White Pelican	1,800	_	_
Phalacrocorax coronatus Crowned Cormorant 53 — Phalacrocorax neglectus Bank Cormorant 1,000 — Phalacrocorax carbo White-breasted Cormorant 5,000 — Phalacrocorax capensis Cape Cormorant 5,500 — Phalacrocorax (atriceps) Cozet Shag 330 — Phalacrocorax (atriceps) Crozet Shag 25 — Phalacrocorax (atriceps) Crozet Shag 25 — Regreta orgenia Slaty Egret 80 — Egretta grazetta Little Egret 500 — Egretta guaris Reef Heron 500 — Egretta gularis Reef Heron 500 — Camerodius albus Great White Egret 500 — Ardea cinerea Great White Egret 500 7,000 Ardea cinerea Grey Heron 5,000 7,000 Ardea melanocephala Black-headed Heron 5,000 1,000 Ardea goliath Goliath Heron 250 —	Pelecanus rufescens	Pink-backed Pelican	1,000	_	_
Phalacrocorax neglectus Bank Cormorant 180 — Phalacrocorax carbo White-breasted Cormorant 5,000 — Phalacrocorax capensis Cape Cormorant 5,500 — Phalacrocorax capensis Cape Cormorant 5,500 — Phalacrocorax (atriceps) Crozet Shag 25 — Melangenis Anhing rufa Darter 500 — — Egretta vinaceigula Slaty Egret 500 — — Egretta garzetta Little Egret 500 — — Egretta gularis Reef Heron 500 — — Egretta dimorpha Dimorphic Egret 250 — — Casmerodius albus Great White Egret 1,000 — — Casmerodius albus Great Heron 500 — — Ardea cinerea Grey Heron — 5,000 7,000 Ardea humbloti Madagascar Heron 50 — — Ardea purpurea Purple Heron	Phalacrocorax africanus	Reed Cormorant	5,000	_	_
Phalacrocorax carbo White-breasted Cormorant 5,000 — Phalacrocorax capensis Cape Cormorant 5,500 — Phalacrocorax verrucosus Kerguelen Shag 330 — Phalacrocorax verrucosus Kerguelen Shag 330 — Anhinga rufa Darter 500 — Egretta vinaceigula Slay Egret 80 — Egretta dresiaca Black Egret 500 — Egretta garzetta Little Egret — 1,000 2,500 Egretta dimorpha Dimorphic Egret 250 — — Egretta dimorpha Dimorphic Egret 250 — — Ardea dimorpha Dimorphic Egret 250 — — Ardea dimorpha Cimorphoya intermedia Yellow-billed Egret 1,000 — — Ardea cinerea Grey Heron — 5,000 7,000 Ardea andanocephala Black-headed Heron 5,000 1,000 — Ardea purpurea Purple Heron —	Phalacrocorax coronatus	Crowned Cormorant	53	_	_
Phalacrocorax capensis Cape Cormorant 5,500 — Phalacrocorax verrucosus Kerguelen Shag 330 — Phalacrocorax (atriceps) Crozet Shag 25 — melanogenis — — Anhinga ruía Darter 500 — Egretta driesiaca Black Egret 500 — Egretta garzetta Little Egret 500 — Egretta gularis Reef Heron 500 — Egretta dimorpha Dimorphic Egret 250 — Casmerodius albus Great White Egret 500 — Mesophoyx intermedia Yellow-billed Egret 1,000 — Ardea cinerea Grey Heron — 5,000 7,000 Ardea numbloti Madagascar Heron 50 — — Ardea purpurea Purple Heron — 500 1,200 Bubulcus ibis Cattle Egret 10,00 — — Ardea purpurea Murple Heron — 500 <td< td=""><td>Phalacrocorax neglectus</td><td>Bank Cormorant</td><td>180</td><td>_</td><td>_</td></td<>	Phalacrocorax neglectus	Bank Cormorant	180	_	_
Phalacrocorax verrucosus Kerguelen Shag 330 — Phalacrocorax (atriceps) Crozet Shag 25 — melanogenis Anhinga rufa Darter 500 — Anhinga rufa Darter 80 — — Egretta ardesiaca Black Egret 500 — — Egretta garzetta Little Egret 500 — — Egretta gularis Reef Heron 500 — — Egretta dimorpha Dimorphic Egret 500 — — Egretta dimorpha Omorphic Egret 500 — — Casmerodius albus Great White Egret 500 — — Ardea cinerea Grey Heron — 5,000 7,000 Ardea actinerea Grey Heron 500 1,200 Ardea purpurea Purple Heron 500 1,200 Ardea purpurea Purple Heron — 500 1,200 Ardeola ruliventris Rufous-bellied Heron — <t< td=""><td>Phalacrocorax carbo</td><td>White-breasted Cormorant</td><td>5,000</td><td>_</td><td>_</td></t<>	Phalacrocorax carbo	White-breasted Cormorant	5,000	_	_
Phalacrocorax (atriceps) melanogenis Crozet Shag 25 — enable melanogenis Anhinga ruía Darter 500 — enable gretta vinaceigula Slaty Egret 500 — enable gretta vinaceigula Egretta vinaceigula Elgretta grazetta Little Egret 500 — enable gretta grazetta Little Egret 500 — enable greta grazetta Little Egret 500 — enable greta grazetta Egretta gularis Reef Heron 500 — enable greta grazetta Egretta gularis Reef Heron 500 — enable greta grazetta Egretta gularis Egretta grazetta Egreta grazetta E	Phalacrocorax capensis	Cape Cormorant	5,500	_	_
Meninga rufa Darter 500 — Peresta viraceigula Slaty Egret 80 — Peresta viraceigula Slaty Egret 80 — Peresta viraceigula Slaty Egret 500 — Peresta viraceigula Slaty Egret 500 — Peresta viraceigula 2500 — Peresta viraceigula 2500 — Peresta viraceigula 2500 — Peresta viraceigula — Peresta viraceigula 2500 — Peresta viraceigula — Peresta viraceigula <td>Phalacrocorax verrucosus</td> <td>Kerguelen Shag</td> <td>330</td> <td>_</td> <td>_</td>	Phalacrocorax verrucosus	Kerguelen Shag	330	_	_
Egretta vinaceigula Slaty Egret 500 — — Egretta ardesiaca Black Egret 500 — — Egretta garzetta Little Egret — 1,000 2,500 Egretta gularis Reef Heron 500 — — Egretta dimorpha Dimorphic Egret 250 — — Casmerodius albus Great White Egret 500 — — Mesophoyx intermedia Yellow-billed Egret 1,000 — — Ardea carnelanocephala Black-headed Heron 5,000 7,000 — Ardea melanocephala Black-headed Heron 50 — — Ardea goliath Goliath Heron 250 — — Ardea goliath Goliath Heron — 500 1,000 — — Ardea goliath Goliath Heron — 500 1,000 — — Ardea goliath Goliath Heron — 500 1,000 — — Ardea	1 1 1	Crozet Shag	25	-	=
Egretta ardesiaca Black Egret 500 — Egretta garzetta Little Egret — 1,000 2,500 Egretta gularis Reef Heron 500 — — Egretta dimorpha Dimorphic Egret 250 — — Egretta dimorpha Dimorphic Egret 250 — — Casmerodius albus Great White Egret 1,000 — — Mesophoyx intermedia Yellow-billed Egret 1,000 — — Ardea conceptala Black-headed Heron 5,000 7,000 7,000 Ardea melanocephala Black-headed Heron 50 0 — Ardea purpurea Purple Heron 50 1,000 — Ardea purpurea Purple Heron — 500 1,200 Bubucus ibis Cattle Egret 1,000 — — Ardea purpurea Purple Heron 250 1,000 — Ardeola ralloides Cammon Squacco Heron 1,000 — — <tr< td=""><td>Anhinga rufa</td><td>Darter</td><td>500</td><td>_</td><td>_</td></tr<>	Anhinga rufa	Darter	500	_	_
Egretta garzetta Little Egret — 1,000 2,000 Egretta gularis Reef Heron 500 — — Egretta dimorpha Dimorphic Egret 250 — — Casmerodius albus Great White Egret 500 — — Arcea cinerea Grey Heron — 5,000 — — Ardea numbloti Madagascar Heron 500 — — Ardea purpurea Purple Heron — 500 1,000 Ardea purpurea Purple Heron — 500 1,000 Ardea purpurea Purple Heron — 500 1,000 Ardeola ralloides Common Squacco Heron — 500 1,000 Ardeola ralloides Madagascar Squacco Heron 1,000 — — Ardeola rufiventris Rufous-bellied Heron 250 — — Butorides striatus Green-backed Heron 1,000 — — Oyecticorax nycticorax Black-crowned Night Heron 250	Egretta vinaceigula	Slaty Egret	80	_	_
Egretta gularis Reef Heron 500 — — Egretta dimorpha Dimorphic Egret 250 — — Casmerodius albus Great White Egret 500 — — Mesophoyx intermedia Yellow-billed Egret 1,000 — — Ardea cinerea Grey Heron — 5,000 7,000 Ardea melanocephala Black-headed Heron 5,000 — — Ardea humbloti Madagascar Heron 50 — — Ardea purpurea Purple Heron — 500 1,200 Bubulcus ibis Cattle Egret 10,000 — — Ardeola ralloides Common Squacco Heron — 500 1,300 Ardeola idae Madagascar Squacco Heron 100 — — Ardeola ruliventris Rufous-bellied Heron 250 — — Ardeola ruliventris Rufous-bellied Heron 250 — — Buttorides striatus Green-backed Heron 1,000 — <td>Egretta ardesiaca</td> <td>Black Egret</td> <td>500</td> <td>_</td> <td>_</td>	Egretta ardesiaca	Black Egret	500	_	_
Egretta dimorpha Dimorphic Egret 250 — — Casmerodius albus Great White Egret 500 — — Mesophoyx intermedia Yellow-billed Egret 1,000 — — Ardea cinerea Grey Heron — 5,000 7,000 Ardea melanocephala Black-headed Heron 5,000 — — Ardea poliath Goliath Heron 250 — — Ardea goliath Goliath Heron 250 — — Ardea purpurea Purple Heron — 500 1,200 Bubulcus ibis Cattle Egret 10,000 — — Ardeola ralloides Common Squacco Heron 100 — — Ardeola ralloides Common Squacco Heron 100 — — Ardeola ruliventris Rufous-bellied Heron 250 — — Butorides striatus Green-backed Heron 1,000 — — Nycticorax nycticorax Black-crowned Night Heron 250 — </td <td>Egretta garzetta</td> <td>Little Egret</td> <td>_</td> <td>1,000</td> <td>2,500</td>	Egretta garzetta	Little Egret	_	1,000	2,500
Casmerodius albus Great White Egret 500 — — Mesophoyx intermedia Yellow-billed Egret 1,000 — — Ardea cinerea Grey Heron — 5,000 7,000 Ardea melanocephala Black-headed Heron 5,000 — — Ardea goliath Goliath Heron 250 — — Ardea purpurea Purple Heron — 500 1,200 Bubulcus ibis Cattle Egret 10,000 — — Ardeola ralloides Common Squacco Heron — 500 1,300 Ardeola rufiventris Rufous-bellied Heron 250 — — Ardeola rufiventris Rufous-bellied Heron 250 — — Butorides striatus Green-backed Heron 1,000 — — Nycticorax nycticorax Black-crowned Night Heron 250 — — Gorsachius leuconotus White-backed Night Heron 250 — — Izobrychus minutus Little Bittern <t< td=""><td>Egretta gularis</td><td>Reef Heron</td><td>500</td><td>_</td><td>_</td></t<>	Egretta gularis	Reef Heron	500	_	_
Mesophoyx intermedia Yellow-billed Egret 1,000 — — Ardea cinerea Grey Heron 5,000 7,000 Ardea melanocephala Black-headed Heron 5,000 — — Ardea humbloti Madagascar Heron 50 — — Ardea goliath Goliath Heron 250 — — Ardea purpurea Purple Heron — 500 1,200 Bubulcus ibis Cattle Egret 10,000 — — Ardeola ralloides Common Squacco Heron — 500 1,300 Ardeola idae Madagascar Squacco Heron 100 — — Ardeola rufiventris Rufous-bellied Heron 250 — — Ardeola rufiventris Rufous-bellied Heron 250 — — Butorides striatus Green-backed Heron 1,000 — — Nycticorax nycticorax Black-crowned Night Heron 250 — — Isobrychius silurus Little Bittern 250 —	Egretta dimorpha	Dimorphic Egret	250	_	_
Ardea cinerea Grey Heron — 5,000 7,000 Ardea melanocephala Black-headed Heron 5,000 — — Ardea humbloti Madagascar Heron 50 — — Ardea goliath Goliath Heron 250 — — Ardea purpurea Purple Heron — 500 1,200 Bubulcus ibis Cattle Egret 10,000 — — — — Ardeola ralloides Common Squacco Heron 100 — — — — Ardeola idae Madagascar Squacco Heron 100 — — — — Ardeola rufiventris Rufous-bellied Heron 250 — — — — Ardeola rufiventris Rufous-bellied Heron 250 — — — — Butorides striatus Green-backed Heron 1,000 — — — — Butorides striatus Green-backed Heron 1,000 — — — — Nycticorax nycticorax Black-recepted Heron 250 — — — Justicoria striatus White-crested Tiger Heron 250 — — — —	Casmerodius albus	Great White Egret	500	_	_
Ardea melanocephala Black-headed Heron 5,000 — — Ardea humbloti Madagascar Heron 50 — — Ardea goliath Goliath Heron 250 — — Ardea purpurea Purple Heron — 500 1,200 Bubulcus ibis Cattle Egret 10,000 — — Ardeola ralloides Common Squacco Heron — 500 1,300 Ardeola idae Madagascar Squacco Heron 100 — — Ardeola rufiventris Rufous-bellied Heron 250 — — Black occuration White-backed Night Heron 25	Mesophoyx intermedia	Yellow-billed Egret	1,000	_	_
Ardea poliath Madagascar Heron 50 — Ardea goliath Goliath Heron 250 — Ardea purpurea Purple Heron — 500 1,200 Bubulcus ibis Cattle Egret 10,000 — — Ardeola ralloides Common Squacco Heron 100 — — Ardeola idae Madagascar Squacco Heron 100 — — Ardeola rufiventris Rufous-bellied Heron 250 — — Butorides striatus Green-backed Heron 1,000 — — Gorsachius leuconotus White-backed Night Heron 250 — — Izgriorinis leucolophus White-backed Night Heron 250 — <	Ardea cinerea	Grey Heron	_	5,000	7,000
Ardea purpurea Goliath Heron 250 — Ardea purpurea Purple Heron — 500 1,200 Bubulcus ibis Cattle Egret 10,000 — — Ardeola ralloides Common Squacco Heron — 500 1,300 Ardeola idae Madagascar Squacco Heron 100 — — Butorides striatus Green-backed Heron 1,000 — — Nycticorax nycticorax Black-crowned Night Heron — 500 2,000 Corsachius leuconotus White-backed Night Heron 250 — — Izgriornis leucolophus White-crested Tiger Heron 250 — — Ixobrychus minutus Little Bittern — 500 — — Ixobrychus sturmii Dwarf Bittern 500 — — Botaurus stellaris Common Bittern 50 — — Scopus umbretta Hamerkop 5,000 — — Mycteria ibis Yellow-billed Stork 500	Ardea melanocephala	Black-headed Heron	5,000	_	_
Ardea purpurea Purple Heron — 500 1,200 Bubulcus ibis Cattle Egret 10,000 — — Ardeola ralloides Common Squacco Heron — 500 1,300 Ardeola idae Madagascar Squacco Heron 100 — — Butorides striatus Green-backed Heron 1,000 — — Nycticorax nycticorax Black-crowned Night Heron — 500 2,000 Corsachius leuconotus White-backed Night Heron 250 — — Izgiornis leucolophus White-crested Tiger Heron 250 — — Izobrychus minutus Little Bittern — 500 — — Izobrychus sturmii Dwarf Bittern 500 — — Botaurus stellaris Common Bittern 50 — — Scopus umbretta Hamerkop 5,000 — — Mycteria ibis Yellow-billed Stork 500 — — Ciconia aigra Black Stork <	Ardea humbloti	Madagascar Heron	50	_	_
Bubulcus ibisCattle Egret10,000——Ardeola ralloidesCommon Squacco Heron—5001,300Ardeola idaeMadagascar Squacco Heron100——Ardeola rufiventrisRufous-bellied Heron250——Butorides striatusGreen-backed Heron1,000——Nycticorax nycticoraxBlack-crowned Night Heron—5002,000Gorsachius leuconotusWhite-backed Night Heron250——Tigriornis leucolophusWhite-crested Tiger Heron250——Ixobrychus siurmiiDwarf Bittern500——Ixobrychus sturmiiDwarf Bittern500——Botaurus stellarisCommon Bittern50——Scopus umbrettaHamerkop5,000——Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork5,000——Ciconia episcopusWoolly-necked Stork5,000——Ciconia icconiaWhite Stork5,000——Ephippiorhynchus senegalensisSaddle-billed Stork1,000——Ephippiorhynchus senegalensisSaddle-billed Stork1,000——Ephippiorhynchus senegalensisSaddle-billed Stork1,000——Bostrychia hagedashHadada1,000——Bostrychia	Ardea goliath	Goliath Heron	250	_	_
Ardeola ralloides Common Squacco Heron — 500 1,300 Ardeola idae Madagascar Squacco Heron 100 — — Ardeola rufiventris Rufous-bellied Heron 250 — — Butorides striatus Green-backed Heron 1,000 — — Nycticorax nycticorax Black-crowned Night Heron — 500 2,000 Gorsachius leuconotus White-backed Night Heron 250 — — Tigriornis leucolophus White-crested Tiger Heron 250 — — Ixobrychus minutus Little Bittern — 500 — — Ixobrychus sturmii Dwarf Bittern 500 — — Balaeniceps rex Shoebill 140 — — Scopus umbretta Hamerkop	Ardea purpurea	Purple Heron	_	500	1,200
Ardeola idaeMadagascar Squacco Heron100——Ardeola rufiventrisRufous-bellied Heron250——Butorides striatusGreen-backed Heron1,000——Nycticorax nycticoraxBlack-crowned Night Heron—5002,000Gorsachius leuconotusWhite-backed Night Heron250——Tigriornis leucolophusWhite-crested Tiger Heron250——Ixobrychus minutusLittle Bittern—5001,200Ixobrychus sturmiiDwarf Bittern500——Botaurus stellarisCommon Bittern50——Scopus umbrettaHamerkop5,000——Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia episcopusWoolly-necked Stork5,000——Ciconia ciconiaWhite Stork5,000——Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia raraSpot-breasted Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald	Bubulcus ibis	Cattle Egret	10,000	_	_
Ardeola rufiventrisRufous-bellied Heron250——Butorides striatusGreen-backed Heron1,000——Nycticorax nycticoraxBlack-crowned Night Heron—5002,000Gorsachius leuconotusWhite-backed Night Heron250——Tigriornis leucolophusWhite-crested Tiger Heron250——Ixobrychus minutusLittle Bittern—5001,200Ixobrychus sturmiiDwarf Bittern500——Botaurus stellarisCommon Bittern50——Scopus umbrettaHamerkop5,000——Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia abdimiiAbdim's Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork5,000——Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis50——Bostrychia raraSpot-breasted Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis	Ardeola ralloides	Common Squacco Heron	_	500	1,300
Butorides striatusGreen-backed Heron1,000——Nycticorax nycticoraxBlack-crowned Night Heron—5002,000Gorsachius leuconotusWhite-backed Night Heron250——Tigriornis leucolophusWhite-crested Tiger Heron250——Ixobrychus minutusLittle Bittern—5001,200Ixobrychus sturmiiDwarf Bittern500——Botaurus stellarisCommon Bittern50——Balaeniceps rexShoebill140——Scopus umbrettaHamerkop5,000——Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia episcopusWoolly-necked Stork5,000——Ciconia ciconiaWhite Stork5,000——Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia raraSpot-breasted Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis <t< td=""><td>Ardeola idae</td><td>Madagascar Squacco Heron</td><td>100</td><td>-</td><td>_</td></t<>	Ardeola idae	Madagascar Squacco Heron	100	-	_
Nycticorax nycticoraxBlack-crowned Night Heron—5002,000Gorsachius leuconotusWhite-backed Night Heron250——Tigriornis leucolophusWhite-crested Tiger Heron250——Ixobrychus minutusLittle Bittern—5001,200Ixobrychus sturmiiDwarf Bittern500——Botaurus stellarisCommon Bittern50——Balaeniceps rexShoebill140——Scopus umbrettaHamerkop5,000——Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia episcopusWoolly-necked Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork500——Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis50——Bostrychia raraSpot-breasted Ibis50——Bostrychia raraSpot-breasted Ibis50——Ceronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100	Ardeola rufiventris	Rufous-bellied Heron	250	_	_
Gorsachius leuconotusWhite-backed Night Heron250——Tigriornis leucolophusWhite-crested Tiger Heron250——Ixobrychus minutusLittle Bittern—5001,200Ixobrychus sturmiiDwarf Bittern500——Botaurus stellarisCommon Bittern50——Balaeniceps rexShoebill140——Scopus umbrettaHamerkop5,000——Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia episcopusWoolly-necked Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork500——Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,000——Bostrychia hagedashHadada1,000———Bostrychia carunculataWattled Ibis50——Bostrychia carunculataWattled Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis <td< td=""><td>Butorides striatus</td><td>Green-backed Heron</td><td>1,000</td><td>_</td><td>_</td></td<>	Butorides striatus	Green-backed Heron	1,000	_	_
Tigriornis leucolophusWhite-crested Tiger Heron250——Ixobrychus minutusLittle Bittern—5001,200Ixobrychus sturmiiDwarf Bittern500——Botaurus stellarisCommon Bittern50——Balaeniceps rexShoebill140——Scopus umbrettaHamerkop5,000——Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia episcopusWoolly-necked Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork—14,500Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,0001,450Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis50——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000—— <td>Nycticorax nycticorax</td> <td>Black-crowned Night Heron</td> <td>_</td> <td>500</td> <td>2,000</td>	Nycticorax nycticorax	Black-crowned Night Heron	_	500	2,000
Ixobrychus minutusLittle Bittern—5001,200Ixobrychus sturmiiDwarf Bittern500——Botaurus stellarisCommon Bittern50——Balaeniceps rexShoebill140——Scopus umbrettaHamerkop5,000——Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia abdimiiAbdim's Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork—14,500Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,000——Bostrychia hagedashHadada1,000———Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—6510 <td>Gorsachius leuconotus</td> <td>White-backed Night Heron</td> <td>250</td> <td>_</td> <td>_</td>	Gorsachius leuconotus	White-backed Night Heron	250	_	_
Ixobrychus sturmiiDwarf Bittern500——Botaurus stellarisCommon Bittern50——Balaeniceps rexShoebill140——Scopus umbrettaHamerkop5,000——Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia abdimiiAbdim's Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork—14,500Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,0001,450Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Tigriornis leucolophus	White-crested Tiger Heron	250	_	_
Botaurus stellarisCommon Bittern50——Balaeniceps rexShoebill140——Scopus umbrettaHamerkop5,000——Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia abdimiiAbdim's Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork—14,500Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,0001,450Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Ixobrychus minutus	Little Bittern	_	500	1,200
Balaeniceps rexShoebill140——Scopus umbrettaHamerkop5,000——Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia abdimiiAbdim's Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork—14,500Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,0001,450Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Ixobrychus sturmii	Dwarf Bittern	500	_	_
Scopus umbrettaHamerkop5,000——Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia abdimiiAbdim's Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork—14,500Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,0001,450Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Botaurus stellaris	Common Bittern	50	_	_
Mycteria ibisYellow-billed Stork500——Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia abdimiiAbdim's Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork—14,500Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,0001,450Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Balaeniceps rex	Shoebill	140	_	_
Anastomus lamelligerusOpenbill Stork1,000——Ciconia nigraBlack Stork—15200Ciconia abdimiiAbdim's Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork—14,500Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,0001,450Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Scopus umbretta	Hamerkop	5,000	_	_
Ciconia nigraBlack Stork—15200Ciconia abdimiiAbdim's Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork—14,500Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,0001,450Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Mycteria ibis	Yellow-billed Stork	500	_	_
Ciconia abdimiiAbdim's Stork5,000——Ciconia episcopusWoolly-necked Stork500——Ciconia ciconiaWhite Stork—14,500Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,000——Bostrychia hagedashHadada1,000———Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Anastomus lamelligerus	· ·	1,000	_	-
Ciconia episcopusWoolly-necked Stork500—-Ciconia ciconiaWhite Stork—14,500Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,000——Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Ciconia nigra	Black Stork	_	15	200
Ciconia ciconiaWhite Stork—14,500Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,000——Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100		Abdim's Stork	5,000	_	_
Ephippiorhynchus senegalensisSaddle-billed Stork150——Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,0001,450Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Ciconia episcopus	Woolly-necked Stork	500	_	_
Leptoptilos crumeniferusMarabou Stork1,000——Plegadis falcinellusGlossy Ibis—1,0001,450Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100		White Stork	_	1	4,500
Plegadis falcinellusGlossy Ibis— 1,0001,450Bostrychia hagedashHadada1,000— -Bostrychia carunculataWattled Ibis100— -Bostrychia olivaceaGreen Ibis50— -Bostrychia raraSpot-breasted Ibis50— -Geronticus calvusSouthern Bald Ibis65— -Lophotibis cristataMadagascar Crested Ibis100— -Threskiornis aethiopicusSacred Ibis2,000— -Platalea leucorodiaEuropean Spoonbill— 65100	Ephippiorhynchus senegalensis	Saddle-billed Stork	150	_	_
Bostrychia hagedashHadada1,000——Bostrychia carunculataWattled lbis100——Bostrychia olivaceaGreen lbis50——Bostrychia raraSpot-breasted lbis50——Geronticus calvusSouthern Bald lbis65——Lophotibis cristataMadagascar Crested lbis100——Threskiornis aethiopicusSacred lbis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Leptoptilos crumeniferus	Marabou Stork	1,000	_	_
Bostrychia carunculataWattled Ibis100——Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Plegadis falcinellus	Glossy Ibis	_	1,000	1,450
Bostrychia olivaceaGreen Ibis50——Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100		Hadada	1,000	_	_
Bostrychia raraSpot-breasted Ibis50——Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Bostrychia carunculata	Wattled Ibis	100	_	-
Geronticus calvusSouthern Bald Ibis65——Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	· · · · · · · · · · · · · · · · · · ·	Green Ibis	50	_	_
Lophotibis cristataMadagascar Crested Ibis100——Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Bostrychia rara	Spot-breasted Ibis	50	_	_
Threskiornis aethiopicusSacred Ibis2,000——Platalea leucorodiaEuropean Spoonbill—65100	Geronticus calvus	Southern Bald Ibis	65	_	_
Platalea leucorodia European Spoonbill – 65 100	Lophotibis cristata	Madagascar Crested Ibis	100	_	_
	Threskiornis aethiopicus	Sacred Ibis	2,000	_	_
Platalea alba African Spoonbill 150 — —		· · · · · · · · · · · · · · · · · · ·	_	65	100
	Platalea alba	African Spoonbill	150	_	_

Caiantifia	Fuglish nove		thresho	
Scientific name	English name	A 1 250	В	С
Phoenicopterus ruber	Greater Flamingo	1,250	_	
Phoenicopterus minor	Lesser Flamingo	20,000	_	
Dendrocygna bicolor	Fulvous Duck	4,500	_	
Dendrocygna viduata	White-faced Duck	18,000		
Thalassornis leuconotus	White-backed Duck	220		
Oxyura maccoa	Maccoa Duck	430		
Cyanochen cyanopterus	Blue-winged Goose	100	_	
Alopochen aegyptiacus	Egyptian Goose	3,500	_	
Tadorna ferruginea	Ruddy Shelduck	4	_	
Tadorna cana	South African Shelduck	420	_	
Plectropterus gambensis	Spur-winged Goose	3,750	_	
Pteronetta hartlaubii	Hartlaub's Duck	300	_	_
Sarkidiornis melanotos	Knob-billed Duck	8,000	_	_
Nettapus auritus	Pygmy Goose	2,000	_	
Anas penelope	Wigeon	5,500	_	_
Anas strepera	Gadwall	1,000	_	
Anas crecca	Teal	10,000	_	
Anas capensis	Cape Teal	3,500	_	-
Anas bernieri	Madagascar Teal	8	_	-
Anas undulata	Yellow-billed Duck	1,700	_	-
Anas melleri	Meller's Duck	35	_	
Anas sparsa	African Black Duck	600	_	_
Anas acuta	Pintail	15,000	_	_
Anas eatoni	Eaton's Pintail	250	_	_
Anas erythrorhyncha	Red-billed Teal	10,000	_	_
Anas hottentota	Hottentot Teal	3,500	_	_
Anas querquedula	Garganey	20,000	_	_
Anas smithii	Cape Shoveler	350	_	_
Anas clypeata	Northern Shoveler	7,000	_	_
Marmaronetta angustirostris	Marbled Teal	30	_	_
Netta erythrophthalma	Southern Pochard	500	_	_
Aythya ferina	Northern Pochard	10,000	-	_
Aythya nyroca	Ferruginous Duck	100	_	_
Aythya innotata	Madagascar Pochard	1	_	_
Aythya fuligula	Tufted Duck	6,000	_	_
Balearica pavonina	Northern Crowned Crane	700	_	_
Balearica regulorum	Southern Crowned Crane	1,000	_	_
Grus virgo	Demoiselle Crane	300	_	_
Grus carunculatus	Wattled Crane	145	_	_
Grus grus	Common Crane	300	_	_
Grus paradisea	Blue Crane	210	_	_
Sarothrura pulchra	White-spotted Flufftail	_	_	_
Sarothrura elegans	Buff-spotted Flufftail	_	_	_
Sarothrura rufa	Red-chested Flufftail	_	_	_
Sarothrura lugens	Long-toed Flufftail	_	_	_
Sarothrura boehmi	Streaky-breasted Flufftail	50	_	_
Sarothrura affinis	Red-tailed Flufftail	_	_	_
Sarothrura insularis	Madagascar Flufftail	_	_	_
Sarothrura ayresi	White-winged Flufftail	10	_	_
Sarothrura watersi	Slender-billed Flufftail	10	_	_
Himantornis haematopus	Nkulengu Rail	_	_	_
Canirallus oculeus	Grey-throated Rail	_	_	_
Canirallus kioloides	Madagascar Grey-throated	Rail —	_	_
Rallus caerulescens	African Water Rail	_	_	_
Rallus madagascariensis	Madagascar Rail			
Dryolimnas cuvieri	White-throated Rail			
Crecopsis egregia	African Crake			
Crex crex	Corncrake	1,000		Ī
Rougetius rougetii	Rouget's Rail	1,000		_
Rougenus Tougent	Rougers Rail	_		_

Appendix 6a ... continued. The congregatory waterbird species (*sensu* Rose and Scott 1997) that occur regularly in the Afrotropics, together with the corresponding '1% of population' thresholds that govern selection of IBAs under the A4i criterion. The derivation of the 1% figures is explained in Appendix 6b.

Scientific name Atlantisia rogersi Amaurornis olivieri	English name Inaccessible Rail	A 84	B		Scientific name Vanellus superciliosus	English name Brown-chested Wattled Plover	A 100	B —	(
Amaurornis olivieri									_
	Sakalava Rail	_	_	_	Vanellus gregarius	Sociable Lapwing	50	_	_
Amaurornis flavirostra	Black Crake	10,000			Vanellus leucurus	White-tailed Plover	50	_	_
	Little Crake	1,000	_		Gallinago gallinago	Common Snipe			
Porzana parva		1,000				<u> </u>	20,000	_	_
Porzana pusilla	Baillon's Crake	_	_	_	Gallinago media	Great Snipe	300	_	_
Porzana porzana	Spotted Crake	_	_		Gallinago nigripennis	Ethiopian Snipe	500	_	-
Aenigmatolimnas marginalis	Striped Crake	_	_		Gallinago macrodactyla	Madagascar Snipe	50	_	-
Porphyrio porphyrio	Purple Gallinule	100	_	_	Lymnocryptes minimus	Jack Snipe	1,000	_	-
Porphyrio alleni	Lesser Gallinule	_	_	_	Limosa limosa	Black-tailed Godwit	6,000	_	-
Gallinula chloropus	Moorhen	1,000	_	_	Limosa lapponica	Bar-tailed Godwit	8,000	_	-
Gallinula comeri	Gough Moorhen	75	_	_	Numenius phaeopus	Whimbrel	6,000	_	_
Gallinula angulata	Lesser Moorhen	1,000	_	_	Numenius arquata	Curlew	3,500	_	_
Fulica atra	European Coot	20,000	_	_	Tringa erythropus	Spotted Redshank	900	_	_
Fulica cristata	Red-knobbed Coot	5,000	_	_	Tringa totanus	Redshank	1,750	_	_
Podica senegalensis	African Finfoot	_	_		Tringa stagnatilis	Marsh Sandpiper	550	_	
						• • • • • • • • • • • • • • • • • • • •			
Actophilornis africanus	African Jacana	10,000	_		Tringa nebularia	Greenshank	2,300		-
Actophilornis albinucha	Madagascar Jacana	50	_		Tringa ochropus	Green Sandpiper	10,000	_	-
Microparra capensis	Lesser Jacana	500	_		Tringa glareola	Wood Sandpiper	11,000	_	-
Rostratula benghalensis	Painted Snipe	1,000	_		Tringa hypoleucos	Common Sandpiper	15,000	_	-
Dromas ardeola	Crab Plover	300	_	_	Arenaria interpres	Turnstone	350	_	-
Haematopus ostralegus	European Oystercatcher	9,000	_	_	Calidris canutus	Knot	5,000	_	-
Haematopus meadewaldoi	Canary Islands Oystercatcher	1	_	_	Calidris alba	Sanderling	2,200	_	-
Haematopus moquini	African Black Oystercatcher	48	_	_	Calidris minuta	Little Stint	10,000	_	-
Himantopus himantopus	Black-winged Stilt	_	1,000	1,500	Calidris temminckii	Temminck's Stint	5,000	_	_
Recurvirostra avosetta	Avocet	_	250	1,300	Calidris alpina	Dunlin	20,000	_	_
	Stone Curlew		230		· · · · · · · · · · · · · · · · · · ·				
Burhinus oedicnemus		1,500	_		Calidris ferruginea	Curlew Sandpiper	7,500		-
Burhinus senegalensis	Senegal Thick-knee	300	_		Limicola falcinellus	Broad-billed Sandpiper	50	_	-
Burhinus vermiculatus	Water Dikkop	500	_		Philomachus pugnax	Ruff	20,000	_	-
Burhinus capensis	Spotted Dikkop	500	_	_	Larus leucophthalmus	White-eyed Gull	200	_	-
Pluvianus aegyptius	Egyptian Plover	200	_	_	Larus hemprichii	Hemprich's Gull	400	_	-
Rhinoptilus africanus	Double-banded Courser	5,000	_	_	Larus dominicanus	Kelp Gull	300	_	-
Rhinoptilus cinctus	Three-banded Courser	5,000	_	_	Larus fuscus	Lesser Black-backed Gull	6,000	_	-
Rhinoptilus chalcopterus	Bronze-winged Courser	5,000	_	_	Larus cirrocephalus	Grey-headed Gull	1,000	_	_
Cursorius cursor	Cream-coloured Courser	5,000	_	_	Larus hartlaubii	Hartlaub's Gull	250	_	
Cursorius rufus	Burchell's Courser	5,000			Larus ridibundus	Black-headed Gull	20,000	_	
	Temminck's Courser					Slender-billed Gull			_
Cursorius temminckii		5,000	_	_	Larus genei		100	_	-
Glareola pratincola	Common Pratincole	_	1,000	1,600	Sterna nilotica	Gull-billed Tern	270		-
Glareola nordmanni	Black-winged Pratincole	100	_	_	Sterna caspia	Caspian Tern	_	135	25
Glareola ocularis	Madagascar Pratincole	50	_	_	Sterna maxima	Royal Tern	500	_	-
Glareola nuchalis	Rock Pratincole	300	_	_	Sterna bengalensis	Lesser Crested Tern	250	_	-
Glareola cinerea	Grey Pratincole	200	_	_	Sterna bergii	Swift Tern	500	_	-
Pluvialis squatarola	Grey Plover	1,700	_	_	Sterna sandvicensis	Sandwich Tern	1,500	_	-
Charadrius hiaticula	Ringed Plover	3,000	_		Sterna dougallii	Roseate Tern	· _	400	45
Charadrius dubius	Little Ringed Plover	3,000			Sterna sumatrana	Black-naped Tern	2	_	- 13
Charadrius thoracicus	Madagascar Plover	10			Sterna hirundo	Common Tern	2	8	9 00
							12.000	0	8,00
Charadrius sanctaehelenae	St Helena Plover	3	_		Sterna paradisaea	Arctic Tern	13,000	_	-
Charadrius pecuarius	Kittlitz's Plover	1,000	_	_	Sterna vittata	Antarctic Tern	70	_	-
Charadrius tricollaris	Three-banded Plover	1,000	_		Sterna virgata	Kerguelen Tern	50	_	-
Charadrius forbesi	Forbes's Plover	250	_	_	Sterna albifrons	Little Tern	_	50	1,00
Charadrius pallidus	Chestnut-banded Plover	400	_	_	Sterna saundersi	Saunder's Tern	200	_	-
Charadrius alexandrinus	Kentish Plover	1,000	_	_	Sterna balaenarum	Damara Tern	130	_	-
Charadrius marginatus	White-fronted Plover	1,000	_	_	Sterna repressa	White-cheeked Tern	3,000	_	
Charadrius mongolus	Mongolian Plover	250	_		Sterna anaethetus	Bridled Tern	5,000	_	_
Charadrius leschenaultii	Sand Plover	650		_	Sterna fuscata	Sooty Tern	20,000		
						'		150	1.00
Charadrius asiaticus	Caspian Plover	200	_		Chlidonias hybridus	Whiskered Tern	-	150	1,00
√anellus crassirostris	Long-toed Plover	1,000	_		Chlidonias leucopterus	White-winged Tern	2,000	_	
Vanellus armatus	Blacksmith Plover	5,000	_	_	Chlidonias niger	Black Tern	1,700	_	
Vanellus spinosus	Spur-winged Plover	5,000	_	_	Gygis alba	Fairy Tern	5,000	_	-
Vanellus tectus	Black-headed Plover	5,000	_	_	Anous minutus	Black Noddy	4,500	_	-
Vanellus melanocephalus	Spot-breasted Plover	50	_	_	Anous stolidus	Common Noddy	7,500		
· ·	White-crowned Plover	250	_	_	Anous tenuirostris	Lesser Noddy	15,000	_	
Vanellus albicens	CLOWING LIOVEL	230							
Vanellus albiceps	Wattled Player	750			Rynchone Havirostrie	African Chimmor	100		
Vanellus senegallus	Wattled Plover	750	_	_	Rynchops flavirostris	African Skimmer	100		-
	Wattled Plover Lesser Black-winged Plover Black-winged Plover	750 1,000 1,000	- -	_	Reference	A. (1997) Waterfowl population esti		-	

The '1% of population' figures for congregatory Afrotropical waterbirds, used as thresholds to identify IBAs under the A4i criterion (and listed in Appendix 6a), were compiled initially during 1994–1995 and then revised in August 1996. In general, the figures are taken, or derived from, those given in Rose and Scott (1994, 1997), to which reference must be made to interpret fully the following explanations.

In that publication, thresholds are given either as figures, or as letters indicating size ranges, or are left blank. For cases where a letter and not a figure was given, see Tables 1 and 2 for the thresholds used by the Africa IBA programme.

Table 1. The population ranges used by Rose and Scott (1994, 1997), the corresponding 1% range, and the 'mid-point' within the range, which was adopted by the Africa IBA programme as the 1% threshold in many cases.

Letter	Population range	1% threshold range	'Mid-point' threshold
A	<10,000	0 — 100	50
В	10,000 — 25,000	100 — 250	150
C	25,000 — 100,000	250 — 1,000	500
D	100,000 — 1,000,000	1,000 — 10,000	5,000
Е	>1,000,000 — 10,000		

Table 2. The thresholds that were followed by the Africa IBA programme, in cases where Rose and Scott (1994, 1997) give two range letters (e.g. B/C) or where unpublished data suggested that the populations tended towards the top of the published range (e.g. B+).

Letter	1% threshold
A/B or A+	100
B/C or B+	250
C/D or C+	1,000
D/E or D+	10,000

In Table 2, a range given as, for example, 'C/D' may mean one of two things—either that the population was on the cusp of the two ranges or that different population estimates varied widely from between the bottom of C to the top of D. Unpublished data indicated which of these two situations applied.

For some species, where no threshold figures are given by Rose and Scott (1994), discussions in 1996 with Wetlands International,

drawing upon their unpublished data and a draft of Rose and Scott (1997), enabled estimates of the 1% thresholds to be made. Unpublished information was also helpful in allocating the appropriate proportion to the Afrotropics of populations shared between the Afrotropics and other regions, e.g. in the case of a species with an East Africa/South-west Asia flyway population. In some cases, use was made of the total numbers of individuals of a species in Wetland International's African Waterbird Censuses (January and July counts) to inform decisions. Mostly unpublished data only were available for migratory species.

In a few cases, threshold figures different from those given in Rose and Scott (1994, 1997) were used. This was to ensure consistency of approach between the European and African IBA programmes for relevant populations of those Palearctic migrant species which spend the northern winter in the Afrotropics and for which the European IBA programme uses revised threshold figures. These are usually based on population estimates published in Tucker and Heath (1994), Heath and Evans (2000) and Heath *et al.* (2001).

For several Palearctic duck species, part of whose populations spend the boreal winter in the northern Afrotropics, data for north-east Africa are taken from Urban (1993), upon which Rose and Scott (1997) largely based the appropriate part of their West Siberia/South-west Asia/Northeast Africa flyway population estimates (P. Rose, pers. comm.). Corresponding West African estimates come from Monval and Pirot (1989).

For those mostly resident species, for which not even range estimates are given by Rose and Scott (1994), figures were arrived at, in some cases, from the recent literature, but more often by educated guess work (at the order-of-magnitude scale) based on personal experience, analogy with (perceived) similarities to other species, etc.—but many estimates are unlikely to be accurate. For some species, such as rails (Rallidae), etc., not even guesses were attempted.

The estimate for each species is discussed below. In these, the reference indicates where the figure is taken from:

- 'Mid-point' refers to the figures given in Table 1.
- 'New' indicates the threshold is not given by Rose and Scott (1994, 1997).
- 'Estimate of A given' means Rose and Scott (1994) give a range estimate of A (see Tables 1 and 2).
- 'Estimate of A made' means the range estimate is not given by Rose and Scott (1994), and has been estimated by other means (see above).

Species list

Tachybaptus ruficollis

New—estimate of C given by Rose and Scott (1997); mid-point chosen.

Tachybaptus rufolavatus

Rose and Scott (1994).

Tachybaptus pelzelnii

Rose and Scott (1994).

Podiceps cristatus

New—estimates of A given by Rose and Scott (1997) for eastern and southern African populations, summed range retained as A; mid-point chosen.

Podiceps nigricollis

New—estimate of B/C made, B+ threshold chosen.

Pelecanus onocrotalus

New—two thresholds given by Rose and Scott (1994) are summed.

Pelecanus rufescens

New—estimate of D given, but threshold chosen, on advice, at bottom of this range.

Phalacrocorax africanus

New—estimate of D made (includes West African population, for which estimate of 600 is given); mid-point chosen

Phalacrocorax coronatus

Rose and Scott (1997).

Phalacrocorax neglectus

Rose and Scott (1997).

Phalacrocorax carbo lucidus

New—estimates of D and B given by Rose and Scott (1997); mid-point D chosen.

Phalacrocorax nigrogularis

Rose and Scott (1994).

Phalacrocorax capensis

Rose and Scott (1997).

Phalacrocorax verrucosus

Rose and Scott (1994).

Phalacrocorax (atriceps) melanogenis

Rose and Scott (1994).

Anhinga rufa

New—estimate of C made (includes threshold of 30 given for West African population); mid-point chosen.

Egretta vinaceigula

Rose and Scott (1994).

Egretta ardesiaca

New—estimate of B/C given, but true figure thought to be nearer top end of this range, hence mid-point C chosen.

Egretta garzetta

New—both figures. Breeding population estimated as C+; non-breeding population includes the majority of two additional breeding populations, one estimated as given by Rose and Scott (1997), other estimated as C, for which threshold at lower limit chosen

Egretta gularis

New—both population estimates B+, summed. Egretta dimorpha

New—population estimates A/B/C; B+ chosen.

Casmerodius albus

New—estimate of C given by Rose and Scott (1997);
mid-point chosen.

Mesophoyx intermedia

New-population estimates C/D; C+ chosen.

Ardea cinerea

New—both figures. Breeding population estimated as mid-point D; non-breeders include proportion of N. African/Europe population (estimate as 2,000 of 4,500), 5,000 + 2,000 = 7,000.

Ardea melanocephala

New—population estimate D; mid-point chosen.

Ardea humbloti

Rose and Scott (1997).

Ardea goliath

New— estimate of B/C given; B+ chosen.

Ardea purpurea

New—both figures. Breeding population estimated as mid-point of C; the non-breeding population includes two significant additional breeding populations, one given as B (with actual figure c.20,000 on advice, hence 1%=200), the other given as D, split between Afrotropics and Asia (estimate of proportion in Africa conservatively c.50,000, hence 1%=500. 500+200+500=1,200.

Bubulcus ibis

Estimate of D/E given by Rose and Scott (1997); D+ threshold chosen.

Ardeola ralloides

New—both figures. For breeding population, estimate of C given; mid-point chosen. Non-breeding population includes two additional breeding populations, for which Rose and Scott (1997) give estimates of B and C. However, the Europe IBA programme use revised figure of 360 rather than 150 for NWAfr/Med population (Heath and Evans 2000). Therefore, combined total 500+360+500=1,300 (rounded down).

Ardeola idae

New—estimate of A given; A. F. A. Hawkins (pers. comm.) suggests A+.

Ardeola rufiventris

New-estimate of B/C given, B+ chosen.

Butorides striatus

New—main Afrotropical population estimated as c.100,000 birds, other populations in region much smaller, hence 1%=1,000.

Nycticorax nycticorax

New—both figures. Breeding population estimated as mid-point C; non-breeding population includes two additional breeding populations, the first given as 1,500, the second given as B/C, with B+ (250) chosen. Most, not all, winter in Afrotropics, hence combined estimate for these two breeding populations remains 1,500. 500+1,500 = 2,000.

Gorsachius leuconotus

Rose and Scott (1997).

Tigriornis leucolophus

New—estimate of C given; mid-point chosen.

Ixobrychus minutus

New—both figures. Estimate of C given for main breeding population (other very much smaller); midpoint chosen. Two additional breeding populations occur in boreal winter, both with estimates of C given and mid-points chosen; not all winter in Afrotropics, hence combined estimate is 700. 500+700=1,200.

Ixobrychus sturmii

New—estimate of B/C given; C thought more realistic, mid-point used.

Botaurus stellaris

New—southern African population estimated at c.5,000; 1%=50.

Balaeniceps rex

Rose and Scott (1994).

Scopus umbretta

New—estimate of D for all populations combined; mid-point used.

Mycteria ibis

New—estimate of C given; mid-point used.

Anastomus lamelligerus

New—estimate of C/D given for main population (other very much smaller); C+ used.

Ciconia nigra

Rose and Scott (1994) followed for breeding population. Non-breeding estimate is new—350 is given, but European IBA programme uses 200 for this population (Heath and Evans 2000), thus latter figure used here.

Ciconia abdimii

Estimate of D given by Rose and Scott (1997); midpoint chosen.

Ciconia episcopus

Estimate of C given; mid-point used .

Ciconia ciconia

Rose and Scott (1994) followed for breeding population; non-breeding estimate is a combination of the two Rose and Scott (1994) figures, rounded down.

Ephippiorhynchus senegalensis

New—population estimated as B; mid-point used.

Leptoptilos crumeniferus

Rose and Scott (1994).

Plegadis falcinellus

New—both figures. Estimate of C/D made for breeding population; C+ chosen. This non-breeding population is joined by parts of two additional populations—for one a threshold of 325 is given by Rose and Scott (1997), for the other an estimate of B is given (mid-point chosen). Some of latter winter in Asia, so combined figure of 450 chosen. 1.000+450=1.450.

1,000+450=1,450

Bostrychia hagedash

New—estimates available vary from B to D, of which figure of 100,000 seemed best guess, hence 1%=1.000.

Bostrychia carunculata

New—estimate of A given, but Ethiopian Wildlife and Natural History Society advised that threshold should be set as A+.

Bostrychia olivacea

New-estimate of A given; mid-point chosen.

Bostrychia bocagei

Rose and Scott (1994).

Bostrvchia rara

New—estimate of A given; mid-point chosen.

Geronticus calvus

Rose and Scott (1994).

Lophotibis cristata

New-estimate of A/B given; A+ chosen.

Threskiornis aethiopicus

New—estimate of >200,000 given; conservatively 1%=2.000.

Platalea leucorodia

New—both figures. Breeding threshold threshold is a combination of estimates given for Mauritanian and Red Sea populations (65). Non-breeding population includes parts of two additional populations, one with threshold given as 30, the other with range estimate given as 5,000–15,000 by Rose and Scott (1997), hence, conservatively, 1%=50 (European IBA programme uses 130 for this population—see Heath and Evans 2000). Most of both of these populations winter north of the Afrotropics, so combined figure of 30 chosen. 65+30=100 (rounded up).

Platalea alba

New—estimate of A/B given, but true figure thought to be nearer top end of this range, so mid-point of B chosen as threshold.

Phoenicopterus ruber

New—thresholds of 400, 350 and 500 given by Rose and Scott (1997) for the three sub-Saharan populations, totalling 1,250.

Phoenicopterus minor

Rose and Scott (1994) (following Ramsar Convention, where for populations >2 million, threshold of 20,000 applies).

Dendrocygna bicolor

Rose and Scott (1997) thresholds, summed and rounded.

Dendrocygna viduata

Rose and Scott (1997) thresholds, summed and rounded. Thalassornis leuconotus

Rose and Scott (1997) thresholds, summed.

Oxyura maccoa

Rose and Scott (1997) thresholds, summed.

Cyanochen cyanopterus

Rose and Scott (1997).

Alopochen aegyptiacus

Rose and Scott (1997) thresholds, summed and rounded.

Tadorna ferruginea

Rose and Scott (1994).

Tadorna cana

Rose and Scott (1994).

Plectropterus gambensis

Rose and Scott (1997) thresholds, summed.

Pteronetta hartlaubii

Rose and Scott (1997) thresholds, summed and rounded. Sarkidiornis melanotos

Rose and Scott (1997) thresholds, summed and rounded. Nettapus auritus

Rose and Scott (1997) thresholds, summed and rounded

Anas penelope

New—estimate of 250,000 given by Rose and Scott (1997) for the West Siberia/South-west Asia/North-east Africa population. The African component of this figure is derived from Urban (1993) who, excluding figures for Egypt, gives a range estimate of 10,000–62,000; 'mid-point' of 30,000 chosen, hence 1%=300 (West African population negligibly small).

Anas strepera

New—estimate of 1,300 given by Rose and Scott (1997) for the West Siberia/South-west Asia/Northeast Africa population; Urban (1993), excluding Egypt component, gives a figure of 300 or less. Species is only a vagrant to West Africa. Hence, given context and common sense, this species was considered ineligible for the selection of IBAs under the A4i criterion in the Afrotropics.

Anas crecca

New—Rose and Scott (1997) give an estimate of 15,000 for the West Siberia/South-west Asia/North-east Africa population. African component of this figure derived from Urban (1993) who, excluding figures for Egypt, gives a range estimate of 21,000–55,000; mid-point of 30,000 chosen, hence 1%=300 (West African population negligibly small).

Anas capensis

Rose and Scott (1997) thresholds, summed.

Anas bernieri

Rose and Scott (1997).

Anas undulata

Rose and Scott (1997) thresholds, summed.

Anas melleri

Rose and Scott (1997).

Anas sparsa

Rose and Scott (1997) thresholds, summed and rounded.

Anas acuta

New—parts of two populations involved; Rose and Scott (1997) give estimate of 1,200,000 for West Siberia/North-east, east and south Europe/West Africa population, of which 1,000,000 winter in West Africa (Rose and Scott 1994). Rose and Scott (1997) give an estimate of 700,000 for the West Siberia/ South-west Asia/North-east Africa population. African component of this figure derived from Urban (1993) who, excluding figures for Egypt, gives a range estimate 31,000–108,000, for which 'midpoint' of 50,000 chosen. 1% of former population = 10,000, of latter 500—combined figure rounded back down to 10,000.

Anas eatoni

Rose and Scott (1997) thresholds, summed and rounded. Anas erythrorhyncha

Rose and Scott (1997) thresholds, summed and rounded.

Anas hottentota

Rose and Scott (1997) thresholds, summed and rounded.

Anas querquedula

Rose and Scott (1997)—one of the component thresholds was revised, but total remains >2,000,000, hence '1%' threshold is unchanged.

Anas smithii

Rose and Scott (1997).

Anas clypeata

New—parts of two populations involved; Rose and Scott (1997) give estimate of 450,000 for West Siberia/North-east, east and south Europe/West Africa population, of which an estimate of 15,000 (1%=150) in West Africa (Monval and Pirot 1989). Rose and Scott (1997) give an estimate of 700,000 for the West Siberia/South-west Asia/North-east Africa population. African component of this figure derived from Urban (1993) who, excluding figures for Egypt, gives a range estimate 100,000–240,000; 'mid-point' of 150,000 chosen, hence 1%=1,500. Summing and rounding gives a 1% figure of 1,600.

Marmaronetta angustirostris

Rose and Scott (1997).

Netta erythrophthalma Rose and Scott (1997).

Avthva ferina

New—Urban (1993), excluding Egypt component, gives a range estimate of 1,000–3,000. Only a vagrant to West Africa. Hence, given context and common sense, this species was considered ineligible for the selection of IBAs under the A41 criterion in the Afrotropics.

Aythya nyroca

New—parts of two populations are now recognized to be involved (Rose and Scott 1997). One (West Mediterranean/West Africa) with population estimate of 10,000, of which approximately half found south of Sahara (P. Rose pers. comm.); the second (West and south-west Asia/North-east Africa) with estimate of 5,000. African component of latter derived from Urban (1993) who, excluding figures for Egypt, gives a range estimate 0–500, i.e. negligibly small. Hence, 1%=50.

Aythya innotata

Rose and Scott (1994).

Aythya fuligula

New-Rose and Scott (1997) give an estimate of 200,000 for the West Siberia/South-west Asia/Northeast Africa population. African component of this figure derived from Urban (1993) who, excluding figures for Egypt, gives a range estimate 1,500-6,000. West African population negligibly small. Hence, given context and common sense, this species was considered ineligible for the selection of IBAs under the A4i criterion in the Afrotropics.

Balearica payonina

Rose and Scott (1997) thresholds, summed and rounded

Balearica regulorum

Rose and Scott (1997) thresholds, summed and rounded.

Grus virgo

Rose and Scott (1997) thresholds, summed and rounded down, since some of largest component populations spend boreal winter in Asia.

Grus carunculatus

Rose and Scott (1997) thresholds, summed.

Grus grus

Part of one population spends northern winter in Afrotropics; Rose and Scott (1997) give threshold of 600, estimate about half remain extra-limital so threshold of 300 chosen.

Grus paradisea

Rose and Scott (1997) thresholds, summed and rounded.

Sarothrura pulchra

No figure

Sarothrura elegans No figure.

Sarothrura rufa

No figure. Sarothrura lugens

No figure.

Sarothrura boehmi

New-population estimate as A; mid-point chosen. Sarothrura affinis

No figure.

Sarothrura insularis

No figure.

Sarothrura ayresi

Rose and Scott (1997).

Sarothrura watersi

Rose and Scott (1997).

Himantornis haematopus

No figure

Canirallus oculeus

No figure.

Canirallus kioloides

No figure.

Rallus caerulescens

No figure. Rallus madagascariensis

No figure. Dryolimnas cuvieri

No figure.

Crecopsis egregia

No figure.

Crex crex

New-estimate of C/D given; C+ threshold chosen.

Rougetius rougetii

No figure

Atlantisia rogersi

Rose and Scott (1997).

Amaurornis olivieri

No figure.

Amaurornis flavirostra

New-estimate of E given; mid-point chosen.

Porzana parva

New-estimate of C/D given; C+ threshold chosen.

Porzana pusilla

No figure. Porzana porzana

No figure.

Aenigmatolimnas marginalis

No figure.

Porphyrio porphyrio

New-estimate of A/B made; A+ mid-point chosen. Porphyrio alleni

No figure.

Gallinula chloropus

New-Rose and Scott (1994) omit sub-Saharan population; estimate of C/D made, with C+ midpoint chosen.

Gallinula angulata

New-estimate of C/D made, with C+ mid-point chosen.

Gallinula comeri

Rose and Scott (1994).

Fulica atra

Rose and Scott (1994).

Fulica cristata

New-estimate of D given; mid-point chosen.

Podica senegalensis

No figure. Actophilornis africana

New-estimate of E made; mid-point chosen.

Actophilornis albinucha

New-estimate of A made; mid-point chosen.

Microparra capensis

New-estimate of C made; mid-point chosen. Rostratula benghalensis

New-estimate of C/D made; C+ mid-point chosen.

Dromas ardeola New-Rose and Scott (1994) give threshold of 430, of which perhaps 70% spend northern winter in Afrotropics (M. R. W. Rands, pers. comm.); hence

Haematopus ostralegus

threshold of 300 chosen.

Rose and Scott (1994)—no attempt was made to estimate the proportion of this population that winters south of Sahara.

Haematopus meadewaldoi

Rose and Scott (1994).

Haematopus moquini

Rose and Scott (1994).

Himantopus himantopus New-both figures. Breeding population estimated as C/D; C+ mid-point chosen. Non-breeding population includes parts of two additional breeding populations which have thresholds of 400 and 450 respectively, but the European IBA programme uses threshold of 350 for the latter population (Heath and Evans 2000). Not all of these birds, however, move to the Afrotropics, so a combined figure of 500 chosen. 1,000+500=1,500.

Recurvirostra avosetta

New-both figures. Breedeing population estimated as B/C; B+ mid-point chosen. Non-breeding population includes parts of three additional breeding populations, with threshold and estimates of 700, C and B respectively. Mid-points of latter two chosen, but former revised down to 400, in line with figure used for this population by Heath and Evans (2000). A combined figure for these of 1,000 chosen, since not all move to Afrotropics; added to breeding population, after rounding, gives 1,300.

Burhinus oedicnemus

New—estimate of B/C/D for the three populations involved made, with a threshold of 1,500 chosen.

Burhinus senegalensis

New-estimates of B made for both populations; mid-points chosen for each and summed.

Burhinus vermiculatus

New-estimate of C made for combined populations; mid-point chosen.

Burhinus capensis

New-estimate of C made for combined populations; mid-point chosen.

Pluvianus aegyptius

New-estimate of B made for West/East African population and of A for Angola/DR Congo population; mid-points chosen and summed.

Rhinoptilus africanus

New-estimate of D made for combined populations: mid-point chosen.

Rhinoptilus cinctus

New-estimate of D made for combined populations; mid-point chosen.

Rhinoptilus chalcopterus

New-estimate of D made for combined populations; mid-point chosen.

Cursorius cursor

New-estimate of D made for combined populations; mid-point chosen.

Cursorius rufus

New-estimate of D made for combined populations; mid-point chosen.

Cursorius temminckii

New-estimate of D made for combined populations; mid-point chosen.

Glareola pratincola

New-both figures. Estimate of D made for African breeding population, but thought nearer to lower end of this range so a threshold of 1,000 chosen. Three additional breeding populations migrate to Afrotropics in boreal winter. For these, Rose and Scott (1994) give estimates of B. B and B/C respectively. Mid points taken for the first two and B+ mid-point for the third, summed and rounded up to give a figure of 600; 1,000+600=1,600.

Glareola nordmanni

New-estimate of A/B given; A+ mid-point chosen. Glareola ocularis

New-estimate of A made; mid-point chosen.

Glareola nuchalis

New-estimates of B made for both populations; mid-points chosen for each and summed.

Glareola cinerea

New-estimate of B made, towards the upper end of the range; a threshold of 200 chosen.

Pluvialis squatarola

New-parts of two populations are involved, with thresholds of 1,500 and 500 respectively; some of latter spend boreal winter in Asia, so a combined figure of 1.700 chosen.

Charadrius hiaticula

New—three populations involved, with thresholds of 500, 2,000 and 2,000 respectively; a proportion of two of these do not spend boreal winter in Afrotropics. Thus, a combined figure of 3,000 chosen.

Charadrius dubius

New-two populations involved, one with an estimate of D given, but thought to be nearer the lower end of this range—figure of 3,200 used by European IBA programme (Heath and Evans 2000); no estimate given for the other population, but thought to be B/C, so a B+ threshold chosen. About half of this latter population spends northern winter in Asia, so threshold halved and then rounded down because relatively small compared with other populations—resulting in a figure of 3,000 being chosen.

Charadrius thoracicus

Rose and Scott (1994).

Charadrius sanctaehelenae Rose and Scott (1997).

Charadrius pecuarius New-three populations involved, for which a combined estimate of C+ made and this threshold

chosen Charadrius tricollaris

New-two populations, for which combined estimate of C+ made: this threshold chosen.

Charadrius forbesi

New-estimate of B/C made; B+ threshold chosen. Charadrius pallidus New-two populations, estimate B/C for Southern

Africa, B for East Africa; B+ and B mid-points chosen and summed.

Charadrius alexandrinus

New-parts of three populations are involved, with threshold and estimates of 700, C and C/D given respectively. Afrotropical components of latter two populations estimated at B+ and C mid-points respectively. These, plus about half of the first population threshold, rounded down=1,000.

Charadrius marginatus

New—estimate for all populations combined C/D; C+ threshold chosen.

Charadrius mongolus

Rose and Scott (1994).

Charadrius leschenaultii

Rose and Scott (1994).

Charadrius asiaticus

New—estimate given as B/C; population thought to be c.20,000, hence threshold of 200.

Vanellus crassirostris

New—estimate for all populations combined C/D; C+ mid-point chosen.

Vanellus armatus

New-estimate of D made; mid-point chosen.

Vanellus spinosus

New-estimate of D made; mid-point chosen.

Vanellus tectus

New—combined estimate of D made; mid-point chosen

Vanellus melanocephalus

New—estimate of A made, on advice of Ethiopian Wildlife and Natural History Society; mid-point chosen.

Vanellus albiceps New—combined estimate of B/C; B+ threshold

New—combine chosen.

Vanellus senegallus

New—combined estimate of C made; thought to be towards upper end of range, hence threshold of 750 chosen.

Vanellus lugubris

New—estimate of C/D made; C+ threshold chosen.

Vanellus melanopterus

New—combined estimate of C/D made; C+ threshold chosen.

Vanellus coronatus

New—combined estimate of D made; mid-point chosen.

Vanellus superciliosus

New—estimate of A/B made; A+ mid-point chosen.

Vanellus gregarius

New-estimate of A given; mid-point chosen.

Vanellus leucurus

New—estimate of B/C given, but most of these spend boreal winter in Asia, perhaps 5,000 in Africa, hence threshold of 50.

Gallinago gallinago

Rose and Scott (1994).

Gallinago media

New—two populations, one with threshold of 75 given, other estimated as B/C, for which B+ threshold chosen; combined and rounded down to give a threshold of 300.

Gallinago nigripennis

New—combined estimate of C made; mid-point chosen.

Gallinago macrodactyla

New—estimate of A made (A. F. A. Hawkins, pers. comm.); mid-point chosen.

Lymnocryptes minimus

New—estimate of C/D given; C+ threshold chosen.

Limosa limosa

New—parts of two populations involved, one with threshold of 3,500, other estimate given as D, for which, on advice a threshold of 2,500 chosen for the Afrotropical element. Summing gives 6,000.

Limosa lapponica

New—two populations involved, part of one of which spends boreal winter in Asia. For one, threshold of 7,000 given, for the other range estimate of C/D given; on advice, C+ threshold chosen for Afrotropical element. Summing gives 8,000.

Numenius phaeopus

New—two populations involved, part of one of which (with threshold of 6,500 given, but for which European IBA programme use a threshold of 5,300: Heath and Evans 2000) remains north of Afrotropics during boreal winter; for the other, a C+ threshold was estimated. For former, a value of 5,000 chosen and summed with 1,000 for the latter, to give 6,000.

Numenius arquata

Rose and Scott (1994)—only a small proportion of the second population mentioned by Rose and Scott (1994) winters in Afrotropics, and this ignored.

Tringa erythropus

New—parts of two populations are involved, one with threshold of 1,200 given, but for which a figure of 720 is used by the European IBA programme (Heath and Evans 2000), while 700 used here for sub-Saharan element; for other population, an estimate of B/C is given, of which c.90% winter in Afrotropics and for which a threshold of 200 therefore chosen. Summing gives 900.

Tringa totanus

New—parts of two populations are involved, for one a threshold of 1,500 given; a further threshold of 250 chosen for Afrotropical component of second population. Summing gives 1,750.

Tringa stagnatilis

New—parts of two populations are involved, for which estimates of C/D and C are given respectively; for these, thresholds of 300 (used by European IBA programme: Heath and Evans 2000) and 250 thought appropriate. Summing gives 550.

Tringa nebularia

New—parts of two populations are involved, for which estimates of D and C/D are given. For former, threshold of 1,800 used by European IBA programme (Heath and Evans 2000), for latter a C mid-point was chosen for Afrotropical element. Summing gives 2,300.

Tringa ochropus

New—parts of two populations are involved, for which D/E estimate given for one; a D+ threshold chosen for the combined elements.

Tringa glareola

New—two populations are involved, of which one split with Asia, with estimates of E and D/E respectively; a threshold of 10,000 initially selected, but increased to 11,000 to conform with European IBA programme (Heath and Evans 2000).

Tringa cinerea

New—threshold of 440 given, but majority of this population winters in SW Asia; figure of 100 chosen. Tringa hypoleucos

New—parts of two populations are involved, with an estimate of E given for one. A combined threshold of 15.000 chosen.

Arenaria interpres

New—parts of two populations are involved, one with a threshold of 300 given, while for the other, of which c 90% occur in Asia, an estimate of C given. Ten percent of C threshold is 50; 300+50=350.

Calidris canutus

Rose and Scott (1994).

Calidris alba

New—parts of two populations are involved, with thresholds of 1,000 and 1,200 given. European IBA programme uses 1,200 for the former (Heath and Evans 2000), but offset by equivalent decrease of latter for relatively small proportion of this population wintering in South-west Asia.

Calidris minuta

New—parts of two populations are involved, with thresholds of 2,100 and 10,000 given. Figure of 10,000 chosen to take account of extra-limital element.

Calidris temminckii

New—parts of two populations are involved. BirdLife International and Wetlands International data are at considerable variance over estimates for this species. For conformity, threshold of European IBA programme is used (Heath and Evans 2000).

Calidris alpina

New—parts of up to five populations are involved, the combined total of which pass 2 million. Threshold of 20,000 chosen.

Calidris ferruginea

New—two populations are involved, both almost exclusively Afrotropical during the boreal winter; thresholds given—4,500 and 3,100—summed and rounded down to give 7,000.

Limicola falcinellus

New—the population involved is split (during boreal winter) between Asia and Africa at ratio of c.4:1. Hence, threshold of 250 given, drops to 50 for Africa.

Philomachus pugnax

New—parts of two populations are involved, estimate at E and D/E; combined threshold of 20,000 chosen.

Larus leucophthalmus

Rose and Scott (1994).

Larus hemprichii

Rose and Scott (1994).

Larus dominicanus

New – Crawford *et al.* (1982) estimate a breeding population of 22,400—including non-breeding population, say 30,000—hence threshold of 300.

Larus fuscu

New—parts of two populations are involved, with thresholds of 2,500 and 4,500; however, European IBA programme uses revised figures of 2,000 and 4,000 respectively=6,000.

Larus cirrocephalus

New—population estimated at C/D; C+ threshold chosen.

Larus hartlaubii

Rose and Scott (1994).

Larus ridibundus

New—parts of three populations involved, combined total well in excess of 2 million; 20,000 threshold chosen.

Larus genei

Rose and Scott (1994).

Sterna nilotica

New—two populations are involved, with thresholds of 120 and 200. For latter, European IBA programme uses revised figure of 150 (Heath and Evans 2000); 120+150=270.

Sterna caspia

New—both figures. Breeding population threshold is sum of three separate breeding population thresholds, two given by Rose and Scott (1994), the third, Madasgascan, estimate to be in range A with, conservatively, the threshold chosen to be 10; total 135. Non-breeding population augmented by parts of two additional populations: the European one has threshold of 60 given, but European IBA programme uses revised figure of 50 (Heath and Evans 2000), while the Caspian population estimate by Rose and Scott (1994) is given as 10,000, of which advised that c.3,000 winter in Asia; 1% of remaining 7,000 therefore 70. 135+ 50+70=255, rounded down to 250.

Sterna maxima

Rose and Scott (1994).

Sterna bengalensis

Rose and Scott (1994).

Sterna bergii

New—three populations are involved, of which one is split with Asia; Rose and Scott (1994) give thresholds of 150, 12 and 400. Summing and rounding down gives 500.

Sterna sandvicensis

Rose and Scott (1994).

Sterna dougallii

New—both figures. Afrotropical breeding population thresholds given by Rose and Scott (1994) sum to 418, rounded down to 400. These are augmented by non-breeders from Europe for which threshold given is 50, hence 450.

Sterna sumatrana

New—Indian Ocean breeding population given by Feare (1984) gives 70 pairs for Aldabra and 10 pairs on African Banks, the only two confirmed nesting sites in Afrotropics. 80 pairs=c.240 birds, hence 1%=2.

Sterna hirundo

New—both figures. Breeding population in Afrotropics estimated at 400 pairs (Cooper *et al.* 1984), hence 1%=8 birds. Non-breeding population made up of elements of three separate populations, with thresholds and estimates of 1,800, 6,000 and C/D respectively. A combined figure of 8,000 chosen for threshold

Sterna paradisaea

New—estimate of E given; European IBA programme uses a figure of 13,000 (Heath and Evans 2000), which is also used here.

Sterna vittata

New—sum of Rose and Scott (1994) thresholds for Kerguelen, Crozet and Tristan.

Sterna virgata

Rose and Scott (1997).

Sterna albifrons

New—both figures. Breeding population estimated as A; mid-point chosen. Non-breeding population augmented by two additional populations, for which thresholds of 340 and 600 given; summing gives 1,000.

Sterna saundersi

New—threshold of 400 given, but this population shared more or less equally with Asia, so 200 chosen.

Sterna balaenarum

Rose and Scott (1994).

Sterna repressa

New—threshold of 6,000 given; it was estimated that this population is split more or less equally with Asia, hence figure of 3,000 chosen.

Sterna anaethetus

Rose and Scott (1994)—West African population very small and hence threshold not changed.

Sterna fuscata

Rose and Scott (1994).

Chlidonias hybridus

New—both figures. Breeding population estimate at B; mid-point chosen. Non-breeders of this population are augmented by two additional populations, with thresholds of 250 and 750 given; combined total rounded down to 1.000.

Chlidonias leucopterus

New—threshold of 2,300 given, but some of this population spends boreal winter in Asia, so figure rounded down to 2,000.

Chlidonias niger

New—threshold of 2,000 given, but European IBA programme uses revised figure of 1,700 (Heath and Evans 2000); this figure used here.

Gygis alba

New-estimate of D given; mid-point chosen.

Anous minutus

Anous stolidus Anous tenuirostris

Rose and Scott (1994, 1997) do not consider noddy terns (*Anous* spp.). All estimates and thresholds are therefore new and derive from figures and range estimates given in papers in Croxall *et al.* (1984).

Rynchops flavirostris

New—estimate of B made, but more recent estimate for total population is '<10,000 birds' (del Hoyo *et al.* 1996); threshold therefore set at 100.

References

- COOPER, J., WILLIAMS, A. J. AND BRITTON, P. L. (1984) Distribution, population sizes, and conservation of breeding seabirds in the Afrotropical region. Pp. 403–419 in J. Croxall, P. G. H. Evans and R. W. Schreiber, eds. *Status and conservation of the world's seabirds*. Cambridge, UK: International Council for Bird Preservation (Technical Publication No. 2).
- Crawford, R. J. M., Cooper, J. and Shelton, P.A. (1982) Distribution, population size, breeding and conservation of the Kelp Gull in Southern Africa. *Ostrich* 53: 164–177
- CROXALL, J., EVANS, P. G. H. AND SCHREIBER, R. W., EDS (1984) Status and conservation of the world's seabirds. Cambridge, UK: International Council for Bird Preservation (Technical Publication No. 2).
- FEARE, C. J. (1984) Seabird status and conservation in the tropical Indian Ocean. Pp. 457–471 in J. Croxall, P. G. H. Evans and R. W. Schreiber, eds. *Status and conservation of the world's seabirds*. Cambridge, UK: International Council for Bird Preservation (Technical Publication No. 2).
- HEATH, M. F. AND EVANS. M. I., EDS (2000) Important Bird Areas in Europe: priority sites for conservation. Cambridge, UK: BirdLife International (Conservation Series No. 8).

- HEATH, M., BORGGREVE, C. AND PEET, N., EDS (2001) European bird populations: estimates and trends. Cambridge, UK: BirdLife International (Conservation Series No. 10).
- DEL HOYO, J., ELLIOTT, A. AND SARGATAL, J. (1996) Handbook of the birds of the world. Vol. 3. Barcelona, Spain: Lynx Edicions.
- MONVAL, J.-Y. AND PIROT, J.-Y. (1989) Results of the IWRB International Waterfowl Census 1967–1986. Slimbridge, UK: International Waterfowl and Wetlands Research Bureau (Special Publication No. 8)
- ROSE, P. M. AND SCOTT, D. A. (1994) Waterfowl population estimates. Slimbridge, UK: International Waterfowl and Wetlands Research Bureau (Special Publication No. 29).
- ROSE, P. M. AND SCOTT, D. A. (1997) Waterfowl population estimates. Second edition. Wageningen, Netherlands: Wetlands International (Publication 44).
- TUCKER, G. M. AND HEATH, M. F. (1994) *Birds in Europe: their conservation status*. Cambridge, UK: BirdLife International (Conservation Series No. 3).
- Urban, E. (1993) Status of Palearctic wildfowl in Northeast and East Africa. *Wildfowl* 44: 133–148.

Appendix 6c. The congregatory waterbird species (*sensu* Rose and Scott 1997) that occur in North Africa, together with the corresponding '1% of population' thresholds that govern selection of IBAs under the A4i criterion. As North Africa is part of the Western Palearctic region, the 1% estimates are those used, except for a few additional species, in the European IBA programme—for details of their derivation, see Heath and Evans (2000).

All population thresholds are given as numbers of individuals. To convert between individuals and pairs, a multiplying/dividing fac	ng factor of 3 was used	i.
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Scientific name	English name	1% threshold	Scientific name	English name	1% threshold
Tachybaptus ruficollis	Little Grebe	1,000	Pluvialis squatarola	Grey Plover	1,700
Podiceps cristatus	Great Crested Grebe	10,000	Vanellus spinosus	Spur-winged Plover	100
Podiceps nigricollis	Black-necked Grebe	1,000	Vanellus vanellus	Lapwing	70,000
Phalacrocorax carbo	White-breasted Cormorant	4,250	Calidris canutus	Knot	8,500
Phalacrocorax aristotelis	Shag	2,700	Calidris alba	Sanderling	1,200
Pelecanus onocrotalus	White Pelican	800	Calidris minuta	Little Stint	2,100
Pelecanus crispus	Dalmatian Pelican	25	Calidris temminckii	Temminck's Stint	3,000
Nycticorax nycticorax	Black-crowned Night Heron	1,500	Calidris ferruginea	Curlew Sandpiper	4,500
Ardeola ralloides	Common Squacco Heron	360	Calidris alpina	Dunlin	22,000
Bubulcus ibis	Cattle Egret	2,100	Limicola falcinellus	Broad-billed Sandpiper	400
Egretta garzetta	Little Egret	1,000	Philomachus pugnax	Ruff	33,000
Casmerodius albus	Great White Egret	120	Lymnocryptes minimus	Jack Snipe	660
Ardea cinerea	Grey Heron	3,900	Gallinago gallinago	Common Snipe	54,000
Ciconia nigra	Black Stork	200	Gallinago media	Great Snipe	300
Ciconia ciconia	White Stork	4,500	Limosa limosa	Black-tailed Godwit	4,200
Geronticus eremita	Northern Bald Ibis	4	Limosa lapponica	Bar-tailed Godwit	1,000
Plegadis falcinellus	Glossy Ibis	450	Numenius phaeopus	Whimbrel	5,300
Platalea leucorodia	European Spoonbill	160	Numenius tenuirostris	Slender-billed Curlew	3
Phoenicopterus ruber	Greater Flamingo	800	Numenius arquata	Curlew	3,500
Anser anser	Greylag Goose	3,500	Tringa erythropus	Spotted Redshank	720
Tadorna ferruginea	Ruddy Shelduck	225	Tringa totanus	Redshank	3,000
Tadorna tadorna	Shelduck	3,750	Tringa stagnatilis	Marsh Sandpiper	300
	Wigeon	18,000	Tringa nebularia	Greenshank	1,800
Anas penelope	Gadwall		Tringa ochropus	Green Sandpiper	10,000
Anas strepera		1,300	Tringa glareola	Wood Sandpiper	11,000
Anas crecca	Teal	14,000	Tringa cinerea	Terek Sandpiper	440
Anas platyrhynchos	Mallard	83,000	Tringa hypoleucos	Common Sandpiper	15,000
Anas acuta	Pintail	12,600	Arenaria interpres	Turnstone	700
Anas querquedula	Garganey	20,000	Larus melanocephalus	Mediterranean Gull	5,500
Anas clypeata	Northern Shoveler	4,650	Larus minutus	Little Gull	680
Marmaronetta angustirostris	Marbled Teal	30	Larus ridibundus	Black-headed Gull	65,000
Netta rufina	Red-crested Pochard	750			
Aythya ferina	Northern Pochard	13,500	Larus genei	Slender-billed Gull	1,200
Aythya nyroca	Ferruginous Duck	600	Larus audouinii	Audouin's Gull	390
Aythya fuligula	Tufted Duck	16,000	Larus canus	Common Gull	16,000
Melanitta nigra	Common scoter	16,000	Larus fuscus	Lesser Black-backed Gull	6,000
Mergus serrator	Red-breasted Merganser	1,850	Larus cachinnans	Yellow-legged Gull	4,500
Oxyura leucocephala	White-headed Duck	140	Larus armenicus	Armenian Gull	300
Gallinula chloropus	Moorhen	10,000	Sterna nilotica	Gull-billed Tern	270
Fulica cristata	Red-knobbed Coot	50	Sterna caspia	Caspian Tern	150
Fulica atra	European Coot	40,000	Sterna bengalensis	Lesser Crested Tern	40
Grus virgo	Demoiselle Crane	1	Sterna sandvicensis	Sandwich Tern	2,800
Grus grus	Common Crane	2,000	Sterna dougallii	Roseate Tern	50
Haematopus ostralegus	European Oystercatcher	11,000	Sterna hirundo	Common Tern	7,800
Himantopus himantopus	Black-winged Stilt	700	Sterna paradisaea	Arctic Tern	13,000
Recurvirostra avosetta	Avocet	1,100	Sterna albifrons	Little Tern	900
Glareola pratincola	Common Pratincole	200	Chlidonias hybridus	Whiskered Tern	1,000
Charadrius dubius	Little Ringed Plover	3,200	Chlidonias niger	Black Tern	1,700
Charadrius hiaticula	Ringed Plover	2,500	Chlidonias leucopterus	White-winged Tern	2,300
Charadrius pecuarius	Kittlitz's Plover	?	References		
Charadrius alexandrinus	Kentish Plover	950		EDS (2000) Important Bird Areas in Eu	
			tor conservation. Vols 1 an	d 2. Cambridge, UK: BirdLife Internati	onal.
Charadrius morinellus	Dotterel	1,000	ROSE, P. M. AND SCOTT, D. A. (1997) Waterfowl population estimates. Second edition Wageningen, Netherlands: Wetlands International (Publication 44).		

Appendix 6d. The congregatory seabird species that occur regularly in the area of coverage of the Africa IBA programme, together with the corresponding '1% of population' thresholds that govern selection of IBAs under the A4ii criterion. The derivation of the 1% figures is explained in Appendix 6f.

	1 (' -	ala tribili i t	a mulinlying/dividing factor of 3 was used
All nonlication thresholds are given	as numbers of nairs. To convei	rt netween individuals and nairs	a milliniving/dividing factor of 3 was lised

Scientific name	English name	1% threshold (pairs)	Scientific name	English name	1% threshold (pairs)
Aptenodytes patagonicus	King Penguin	10,000	Procellaria aequinoctialis	White-chinned Petrel	22,000
Pygoscelis papua	Gentoo Penguin	2,600	Procellaria cinerea	Grey Petrel	2,000
Pygoscelis antarctica	Chinstrap Penguin	40,000	Calonectris diomedea	Cory's Shearwater	2,000
Eudyptes chrysocome	Rockhopper Penguin	35,000	Puffinus carneipes	Flesh-footed Shearwater	1,000
Eudyptes chrysolophus	Macaroni Penguin	110,000	Puffinus pacificus	Wedge-tailed Shearwater	15,000
Spheniscus demersus	Jackass Penguin	1,700	Puffinus gravis	Great Shearwater	55,000
Diomedea exulans	Wandering Albatross	200	Puffinus griseus	Sooty Shearwater	27,500
Diomedea amsterdamensis	Amsterdam Albatross	15	Puffinus yelkouan	Yelkouan Shearwater	225
Diomedea melanophris	Black-browed Albatross	5,500	Puffinus assimilis	Little Shearwater	2,500
Diomedea chrysostoma	Grey-headed Albatross	800	Puffinus Iherminieri	Audubon's Shearwater	300
Diomedea chlororhynchos	Yellow-nosed Albatross	800	Oceanites oceanicus	Wilson's Storm Petrel	30,000
Phoebetria fusca	Sooty Albatross	150	Garrodia nereis	Grey-backed Storm Petrel	100
Phoebetria palpebrata	Light-mantled Sooty Albatross	300	Pelagodroma marina	White-faced Storm Petrel	10,000
Macronectes giganteus	Southern Giant Petrel	360	Fregetta grallaria	White-bellied Storm Petrel	30
Macronectes halli	Northern Giant Petrel	70	Fregetta tropica	Black-bellied Storm Petrel	1,000
Fulmarus glacialoides	Southern Fulmar	20,000	Hydrobates pelagicus	British Storm Petrel	2,800
Daption capense	Pintado Petrel	10,000	Oceanodroma castro	Madeiran Storm Petrel	2,000
Pterodroma brevirostris	Kerguelen Petrel	1,000	Pelecanoides urinatrix	Common Diving Petrel	70,000
Pterodroma arminjoniana	Herald Petrel	1,000	Pelecanoides georgicus	South Georgia Diving Petrel	60,000
Pterodroma baraui	Barau's Petrel	15	Phaethon aethereus	Red-billed Tropicbird	25
Pterodroma macroptera	Great Winged Petrel	2,000	Phaethon rubricauda	Red-tailed Tropicbird	160
Pterodroma incerta	Atlantic Petrel	30	Phaethon lepturus	White-tailed Tropicbird	250
Pterodroma aterrima	Mascarene Black Petrel	1	Morus capensis	Cape Gannet	900
			Sula dactylatra	Masked Booby	1,000
Pterodroma mollis	Soft-plumaged Petrel	300	Sula sula		,
Pterodroma feae	Fea's Petrel	6		Red-footed Booby	3,000
Pterodroma lessonii	White-headed Petrel	1,000	Sula leucogaster	Brown Booby	1,000
Halobaena caerulea	Blue Petrel	10,000	Fregata magnificens	Magnificent Frigatebird	1,000
Pachyptila vittata	Broad-billed Prion	5,000	Fregata aquila	Ascension Frigatebird	10
Pachyptila salvini	Salvin's Prion	60,000	Fregata minor	Greater Frigatebird	1,600
Pachyptila desolata	Antarctic Prion	250,000	Fregata ariel	Lesser Frigatebird	1,000
Pachyptila turtur	Fairy Prion	10,000	Chionis minor	Lesser Sheathbill	65
Pachyptila belcheri	Thin-billed Prion	10,000	Catharacta antarctica	Subantarctic Skua	130
Bulweria bulwerii	Bulwer's Petrel	1,300			

Appendix 6e. The congregatory landbird species that occur regularly in the area of coverage of the Africa IBA programme, together with the corresponding '1% of population' thresholds that govern selection of IBAs under the A4ii criterion. The derivation of the 1% figures is explained in Appendix 6f.

Population thresholds are given as numbers of individuals or pairs, as indicated. In general, to convert between individuals and pairs, a muliplying/dividing factor of 3 was used.

Scientific name	English name	1% threshold	Scientific name	English name	1% threshold
Neophron percnopterus	Egyptian Vulture	110 pairs	Agapornis nigrigenis	Black-cheeked Lovebird	100 individuals
Gyps rueppellii	Rüppell's Griffon	110 pairs	Merops apiaster	European Bee-eater	40,000 individuals
Gyps fulvus	Eurasian Griffon	180 pairs	Merops malimbicus	Rosy Bee-eater	870 individuals
Gyps coprotheres	Cape Griffon	44 pairs	Merops nubicus	Northern Carmine Bee-eater	24,000 individuals
Falco naumanni	Lesser Kestrel	600 individuals	Merops nubicoides	Southern Carmine Bee-eater	6,000 individuals
Falco vespertinus	Western Red-footed Falcon	1,500 individuals	Riparia riparia	European Sand Martin	250,000 individuals
Falco amurensis	Eastern Red-footed Falcon	1,000 individuals	Hirundo rustica	Barn Swallow	800,000 individuals
Falco eleonorae	Eleonora's Falcon	50 pairs	Motacilla flava	Yellow Wagtail	460,000 individuals
Falco concolor	Sooty Falcon	10 pairs			

Appendix 6f. The derivation of 1% population threshold figures for congregatory seabirds and landbirds.

The '1% of population' figures for congregatory seabirds and landbirds, used as thresholds to identify IBAs under the A4ii criterion (and listed in Appendix 6d and 6e), were compiled in 1995, except for the additional seabird species which breed only on Bouvetøya (Bouvet Island), which were added in 1998. The main references used to obtain global population estimates are given for each species with, for seabirds, an

indication of the range states and territories in Africa in which breeding colonies occur. Words such as 'several' and 'a few' prefixing figures that appear in literature sources are usually interpreted conservatively to mean three, unless otherwise stated (hence, several thousand = 3,000). Comments made in Appendix 6b about the likely inaccuracy of some of the estimates apply equally here.

Seabirds (breeding populations)

King Penguin Aptenodytes patagonicus

Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn >1 million pairs (del Hoyo et al. 1992); 1% = 10,000 pairs.

Gentoo Penguin Pygoscelis papua

Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn at least 260,000 pairs (del Hoyo et al. 1992); 1% = 2,600 pairs.

Chinstrap Penguin Pygoscelis antarctica

Bouvetøya. World popn c.4,000,000 pairs (Woehler 1993, Convey et al. 1999); 1% = 40,000 pairs.

Rockhopper Penguin Eudyptes chrysocome

Tristan group (St Helena); St Paul–Amsterdam Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn 3,500,000 pairs (del Hoyo *et al.* 1992); **1% = 35,000 pairs**.

Macaroni Penguin Eudyptes chrysolophus

Bouvetøya; Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn >11,000,000 pairs (del Hoyo *et al.* 1992); **1%** = **110,000 pairs**.

Jackass Penguin Spheniscus demersus

Namibia, South Africa. World popn 171,710 (Brown *et al.* 1982), 170,000 pairs (Avian Demography Unit, University of Cape Town, South Africa); **1**% = **1,700 pairs**.

Wandering Albatross Diomedea exulans

Tristan group (St Helena); Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). **Vulnerable**. World popn c.21,000 pairs (del Hoyo *et al.* 1992), <20,000 pairs (Collar *et al.* 1994); **1% = 200 pairs**.

Amsterdam Albatross Diomedea amsterdamensis

St Paul-Amsterdam Islands (French Southern Territories). **Critical**. World popn 15 pairs (Collar $et\ al.$ 1994). 1% = 1 pair.

Black-browed Albatross Diomedea melanophris

Crozet & Kerguelen Islands (French Southern Territories). World popn at least 550,000 pairs (del Hoyo *et al.* 1992); **1% = 5,500 pairs**.

Grey-headed Albatross Diomedea chrysostoma

Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn c.80,000 pairs (del Hoyo *et al.* 1992); **1% = 800 pairs**.

Yellow-nosed Albatross Diomedea chlororhynchos

Tristan group (St Helena); Crozet Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn 80,000–100,000 pairs (del Hoyo *et al.* 1992); **1% = 800 pairs**.

Sooty Albatross Phoebetria fusca

Tristan group (St Helena); Crozet, Kerguelen & St Paul-Amsterdam Islands (French Southern Territories); Prince Edward Islands (South Africa). Near Threatened. World popn 15,000–21,000 pairs (del Hoyo et al. 1992); 1% = 150 pairs.

Light-mantled Sooty Albatross Phoebetria palpebrata

Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn c.30,000 pairs; 1% = 300 pairs.

Southern Giant Petrel Macronectes giganteus

Tristan group (St Helena); Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn c.36,000 pairs (del Hoyo *et al.* 1992); **1% = 360 pairs**.

Northern Giant Petrel Macronectes halli

Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn 7,000–12,000 pairs (del Hoyo $et\ al.\ 1992$); $1\%=70\ pairs$.

Southern Fulmar Fulmarius glacialoides

Bouvetøya. Minimum world popn 2,000,000 pairs (Enticott and Tipling 1997); 1% = 20,000 pairs.

Pintado Petrel Daption capense

Bouvetøya; Crozet & Kerguelen Islands (French Southern Territories). World popn 'several million birds' (del Hoyo et al. 1992); 1% = 30,000 birds or 10,000 pairs.

Kerguelen Petrel Pterodroma brevirostris

Tristan group (St Helena); Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn 'probably several hundred thousand birds' (del Hoyo *et al.* 1992); **1**% = **3,000 birds or 1,000 pairs**.

Herald Petrel Pterodroma arminjoniana

Mauritius. World popn 'widespread but probably uncommon' (del Hoyo *et al.* 1992); between 10,000 and 100,000 pairs inferred, but 40,000–50,000 pairs at Pitcairn Island alone (M. de L. Brooke pers. comm.) so let 1% = 1,000 pairs, but Sibley and Monroe (1990) split nominate from *heraldica*, with *arminjoniana* confined to Round Island (Mauritius) and Trinidade (Brazil), in which case popn much less, say 10,000 pairs; 1% = 100 pairs.

Barau's Petrel Pterodroma baraui

Réunion; Rodrigues (Mauritius). **Critical**. World popn 1,500 pairs (Collar *et al.* 1994). 1% = 15 pairs.

Great-winged Petrel Pterodroma macroptera

Tristan group (St Helena); Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn c.210,000 pairs (del Hoyo *et al.* 1992); **1**% = **2,000 pairs**.

Atlantic Petrel Pterodroma incerta

Tristan group (St Helena). **Vulnerable**. World popn 'a few hundreds of pairs on Tristan and some thousands on Gough' (del Hoyo *et al.* 1992, Collar *et al.* 1994); inferred minimum 3,000 pairs; **1%** = **30 pairs**.

Mascarene Black Petrel Pterodroma aterrima

Réunion. Critical. World popn 'extremely small' (del Hoyo et al. 1992); 1% = 1 pair.

Soft-plumaged Petrel Pterodroma mollis

Fristan group (St Helena); Crozet & St Paul–Amsterdam Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn 'tens of thousands of breeding pairs' (del Hoyo *et al.* 1992); **1**% = **300 pairs**.

Fea's Petrel Pterodroma feae

Cape Verde. Vulnerable: World popn c.650 pairs (Collar et al. 1994); 1% = 6 pairs. White-headed Petrel Pterodroma lessonii

Crozet & Kerguelen Islands (French Southern Territories). World popn 'probably c.100,000 breeding pairs' (del Hoyo et al. 1992); **1**% = **1,000 pairs**.

Blue Petrel Halobaena caerulea

Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn 'several million birds' (del Hoyo *et al.* 1992); **1% = 30,000 birds or 10,000 pairs**.

Broad-billed Prion Pachyptila vittata

Tristan group (St Helena). World popn 'several hundred thousand birds' (del Hoyo et al. 1992), '300,000 too low' (M. de L. Brooke pers. comm.); 1% = 5,000 pairs.

Salvin's Prion Pachyptila salvini

Crozet Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn >6 million pairs (del Hoyo et al. 1992); 1% = 60,000 pairs.

Antarctic Prion Pachyptila desolata

Bouvetøya; Crozet & Kerguelen Islands (French Southern Territories). World popn 'of many millions' inc. 22 million pairs South Georgia, 2–3 million pairs on Kerguelen (del Hoyo *et al.* 1992); **1% = 250,000 pairs**.

Fairy Prion Pachyptila turtur

Crozet & St Paul–Amsterdam Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn 'probably several million birds' (del Hoyo *et al.* 1992); **1%** = **30,000 birds or 10,000 pairs**.

Thin-billed Prion Pachyptila belcheri

Crozet & Kerguelen Islands (French Southern Territories). World popn >1 million pairs (del Hoyo et al. 1992); 1% = 10,000 pairs.

Bulwer's Petrel Bulweria bulwerii

Cape Verde; Mauritius. World popn >100,000 pairs in Pacific, several tens of thousands of pairs in Atlantic (del Hoyo *et al.* 1992); total c.130,000 pairs?; **1% = 1,300 pairs**.

White-chinned Petrel Procellaria aequinoctialis

Tristan group (St Helena); Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn 'several million birds—2 million pairs South Georgia, 100,000's Kerguelen' (del Hoyo *et al.* 1992), minimum inferred popn therefore 2.2 million pairs; 1% = 22,000 pairs.

Grey Petrel Procellaria cinerea

Tristan group (St Helena); Crozet, Kerguelen & St Paul–Amsterdam Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn minimum 200,000 pairs (del Hoyo *et al.* 1992); **1% = 2,000 pairs**.

Cory's Shearwater Calonectris diomedea

Cape Verde; Tunisia; Algeria. World popn 'few million birds' (del Hoyo *et al.* 1992); 1% = 30,000 birds. Tucker and Heath (1994) give range 140,000–210,000 pairs; Heath and Evans (2000) use global threshold of 1% = 2,000 pairs.

Flesh-footed Shearwater Puffinus carneipes

St Paul-Amsterdam Islands (French Southern Territories). World popn 'several hundred thousand birds' (del Hoyo et al. 1992); 1% = 3,000 birds or 1,000 pairs.

Wedge-tailed Shearwater Puffinus pacificus

Seychelles; Madagascar; Réunion; Mauritius. World popn 'well over 1,000,000 pairs' (del Hoyo et al. 1992), '1.2 million too conservative' (M. de L. Brooke pers. comm.); 1% = 15.000 pairs.

Great Shearwater Puffinus gravis

Tristan group (St Helena). World popn minimum 5,500,000 pairs (del Hoyo et al. 1992); 1% = 55,000 pairs.

Appendix 6f ... continued. The derivation of 1% population threshold figures for congregatory seabirds and landbirds.

Sooty Shearwater Puffinus griseus

Tristan group (St Helena). World popn minimum 2,750,000 pairs (del Hoyo et al. 1992); 1% = 27,500 pairs.

Yelkouan Shearwater Puffinus yelkouan

Tunisia. European total 18,000–57,000 pairs (Tucker and Heath 1994); Balearic popn minimum 1,800 pairs, Levantine popn several thousand pairs (del Hoyo *et al.* 1992); Heath and Evans (2000) use global threshold of **1% = 225 pairs**.

Little Shearwater Puffinus assimilis

Cape Verde; Tristan group (St Helena); St Paul–Amsterdam Islands (French Southern Territories). World popn total perhaps between 100,000 and 1,000,000 pairs (del Hoyo et al. 1992); **1% = 2,500 pairs**.

Audubon's Shearwater Puffinus Iherminieri

Seychelles; Comoros; ?Red Sea. World popn 'several tens of thousands of breeding pairs' (del Hoyo et al. 1992); 1% = 300 pairs.

Wilson's Storm Petrel Oceanites oceanicus

Bouvetøya; Crozet & Kerguelen Islands (French Southern Territories). World popn 'several million pairs' (del Hoyo *et al.* 1992); **1% = 30,000 pairs**.

Grey-backed Storm Petrel Garrodia nereis

Tristan group (St Helena); Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn 10,000–50,000 pairs (del Hoyo *et al.* 1992); **1% = 100 pairs**.

White-faced Storm Petrel Pelagodroma marina

Cape Verde; Tristan group (St Helena). World popn 'several million birds' (del Hoyo et al. 1992); 1% = 30,000 birds or 10,000 pairs.

White-bellied Storm Petrel Fregetta grallaria

Tristan group (St Helena); St Paul–Amsterdam Islands (French Southern Territories). World popn 'a few thousand breeding pairs' (del Hoyo *et al.* 1992); **1**% = **30 pairs**.

Black-bellied Storm Petrel Fregetta tropica

Bouvetøya; Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn 'c.100,000–150,000 breeding pairs' (del Hoyo et al. 1992); 1% = 1,000 pairs.

British Storm Petrel Hydrobates pelagicus

?Morocco; ?Tunisia. World popn minimum 280,000 pairs (Tucker and Heath 1994); 1% = 2,800 pairs.

Madeiran Storm Petrel Oceanodroma castro

Cape Verde; Ascension & St Helena; ?São Tomé & Príncipe. World popn: 'many islands hold several thousand breeding pairs' (del Hoyo *et al.* 1992). Total therefore perhaps between 10,000 and 100,000 pairs; **1**% = **250 pairs**.

Common Diving Petrel Pelecanoides urinatrix

Tristan (St Helena); Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn minimum 7,000,000 pairs (del Hoyo et al. 1992); 1% = 70,000 pairs.

South Georgia Diving Petrel Pelecanoides georgicus

Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn at least 6,000,000 pairs (del Hoyo et al. 1992); 1% = 60,000 pairs.

Red-billed Tropicbird Phaethon aethereus

Egypt; Somalia; Eritrea; Djibouti; Cape Verde; Senegal; Ascension & St Helena. World popn 'under 10,000 pairs' (del Hoyo et al. 1992); 1% <100 pairs, say 25 pairs.

Red-tailed Tropicbird Phaethon rubricauda

Seychelles; Comoros; Madagascar; Réunion; Mauritius. World popn minimum 16,000 pairs (del Hoyo et al. 1992); 1% = 160 pairs.

White-tailed Tropicbird Phaethon lepturus

São Tomé & Príncipe; Annobón (Equatorial Guinea); Ascension (St Helena); Seychelles; Comoros; Madagascar; Réunion; Mauritius. World popn minimum 25,000 pairs (del Hoyo et al. 1992); 1% = 250 pairs.

Cape Gannet Morus capensis

Namibia; South Africa. World popn c.90,000 pairs (Avian Demography Unit, University of Cape Town, South Africa); 1% = 900 pairs.

Masked Booby Sula dactylatra

?Eritrea; Somalia; Tanzania; Seychelles; Comoros; Réunion; Mauritius; Ascension (St Helena). World popn 'several hundred thousand individuals' (del Hoyo et al. 1992); 1% = 3,000 birds or 1,000 pairs.

Red-footed Booby Sula sula

Ascension (St Helena); Comoros; Madagascar. World popn 'over a million birds' (del Hoyo et al. 1992); 1% = 10,000 birds or 3,000 pairs.

Brown Booby Sula leucogaster

Cape Verde; Guinea-Bissau; Guinea; Ascension & St Helena; Egypt; Sudan; Eritrea; São Tomé & Príncipe; Madagascar. World popn 'several hundred thousand individuals' (del Hoyo *et al.* 1992); **1**% = **3,000 individuals or 1,000 pairs**.

Magnificent Frigatebird Fregata magnificens

Cape Verde. World popn 'several hundred thousand birds' (del Hoyo et al. 1992); 1% = 3,000 individuals or 1,000 pairs.

Ascension Frigatebird Fregata aquila

Ascension (St Helena). **Critical**. World popn c.1,000 pairs (del Hoyo *et al.* 1992, Collar *et al.* 1994); **1% = 10 pairs**.

Great Frigatebird Fregata minor

Comoros; Madagascar. World popn 'half to one million birds' (del Hoyo *et al.* 1992); **1**% = **5,000 birds or 1,700 pairs**.

Lesser Frigatebird Fregata ariel

Seychelles; Comoros; Madagascar. World popn 'several hundred thousand birds' (del Hoyo et al. 1992); 1% = 3,000 birds or 1,000 pairs.

Lesser Sheathbill Chionis minor

Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn '6,500–10,000 pairs' (HBW3); 1% = 65 pairs.

Subantarctic Skua Catharacta antarctica

Bouvetøya; Tristan group (St Helena); Crozet & Kerguelen Islands (French Southern Territories); Prince Edward Islands (South Africa). World popn (including *lonnbergi*) 13,000–14,000 pairs' (HBW3); **1**% = **130 pairs**.

Terrestrial species

Egyptian Vulture Neophron percnopterus

Breeding popn: Heath and Evans (2000) use global threshold of 1% = 110 pairs. Rüppell's Griffon *Gyps rueppellii*

World popn 11,000 pairs, 30,000 birds (Mundy $et\ al.$ 1992). Breeding popn: 1% = 110 pairs, 300 birds.

Eurasian Griffon Gyps fulvus

World popn: 9,300 pairs in Europe (Tucker and Heath 1994) which covers between a quarter and half breeding range; total popn at least double (?), say 18,000 pairs. North Africa 100–150 pairs (Mundy *et al.* 1992). Breeding popn: **1% = 180 pairs**.

Cape Griffon Gyps coprotheres

Vulnerable: World popn 4,400 pairs, 12,000 birds (Mundy *et al.* 1992, Collar *et al.* 1994). Breeding popn: **1% = 44 pairs, 120 birds**.

Lesser Kestrel Falco naumanni

Traditional communal roost sites in South Africa: average size c.1,000 birds, can be up to 30,000–50,000 birds (Brown *et al.* 1982). European popn 10,000–17,000 pairs (Tucker and Heath 1994); this covers about half of breeding range of species, so infer 20,000–40,000 pairs in all, multiplied by 3 to include immatures, thus 60,000–120,000 birds globally. Non-breeding popn: **1% = 600 birds** ('a reasonable estimate', D. Peplar pers. comm.).

Red-footed Falcon Falco vespertinus

Communal roosts in Africa, sometimes of 1,000s (Brown *et al.* 1982). European popn 18,000–44,000 pairs (Tucker and Heath 1994). This covers about one-third of breeding range, thus infer 56,000–132,000 pairs in all, multiplied by 3 to include immatures, 150,000–360,000 birds. European IBA threshold is 360 pairs = 1,000 birds (Heath and Evans 2000). Non-breeding popn: 1% = 1,500 birds.

Eastern Red-footed Falcon Falco amurensis

Traditional communal roost sites (sometimes with *F. naumanni* and *F. vespertinus*) of up to 4,000–5,000 birds. No world or regional popn estimates known. Not threatened, but breeding range smaller than *F. vespertinus*, thus minimum popn estimated at 100,000 birds. Non-breeding popn: 1% = 1,000 birds.

Eleonora's Falcon Falco eleonorae

Morocco c.250 pairs (C. Bowden pers. comm.); Algeria 25–30 pairs; 3,800–4,500 pairs in Europe (Tucker and Heath 1994); thus world popn c.4,000 pairs, but European IBA programme already set 1% threshold: breeding popn (Heath and Evans 2000): **1% = 50 pairs**.

Sooty Falcon Falco concolor

Egypt 150–300 pairs (Goodman *et al.* 1989), but total known world breeding popn under 1,000 pairs (Gaucher *et al.* 1995). Breeding popn: **1% = 10 pairs**.

Black-cheeked Lovebird Agapornis nigrigenis

Dodman (1995) estimates world population at 10,000 individuals. Breeding/Nonbreeding: 1% = 100 birds.

European Bee-eater Merops apiaster

Non-breeding popn (Heath and Evans 2000): 1% = 40,000 birds.

Rosy Bee-eater Merops malimbicus

Only six nesting colonies are known, all of which can be assumed to hold more than 1% of population. Four of the colonies comprised 8,000, 8,000, 18,500 and 23,700 nest-holes respectively. Last-mentioned colony thought to represent 25,000–50,000 adults (Fry 1984, Fry et al. 1988, Fry et al. 1992). Minimum total for four colonies therefore c.58,000 birds. Taking mean of these four (14,500) for the other two colonies gives them a size of 29,000 birds. Minimum total therefore 87,000 birds. Breeding: 1% = 870 birds, or a similar number of nest-holes.

Northern Carmine Bee-eater Merops nubicus

Southern Carmine Bee-eater Merops nubicoides

Colonies of up to 10,000 nests, usually 100–1,000; pre-breeding popn up to 5 million birds (Fry 1984, Fry et al. 1988). Conservatively, infer one million pairs. This estimate applies, because of different taxonomic treatment, to both species combined; no estimate found for relative numbers of each. So, breeding distribution, as mapped by Birds of Africa, of nubicus appears to cover c. four times the area of nubicoides. Hence, infer that nubicus: nubicoides numbers also split 4:1 or 800,000:200,000 pairs; 1% therefore 8,000 and 2,000 pairs respectively. M. nubicus 1% = 24,000 birds. M. nubicoides 1% = 6,000 birds.

Appendix 6f ... continued. The derivation of 1% population threshold figures for congregatory seabirds and landbirds.

European Sand Martin Riparia riparia

Threshold used for European popn was 120,000 birds (Heath and Evans 2000), which covers about one half of the breeding range of the birds that winter in Africa. Tucker and Heath (1994) estimate 2.8–14 million pairs in Europe, which might imply a range of 5.6–28 million pairs across relevant range. Non-breeding popn: 1% = 250,000 birds.

Barn Swallow Hirundo rustica

Tucker and Heath (1994) estimate 13–33 million pairs in Europe. This covers about one third of the breeding range of birds that winter in Africa, which might imply a minimum of c.40 million pairs. Moreau (1972) estimated 220 million individuals leave breeding range for Africa in autumn. Non-breeding popn: **1% = 800,000 birds**.

Yellow Wagtail Motacilla flava

Moreau (1972) estimated 70 million individuals leave breeding range to winter in Africa. On basis of average clutch size of 4–6 and only 1 brood per year, assume 4 imms to every breeding pair which implies about 23 million pairs. Non-breeding poin: 1% = 460.000 birds.

References

- Brown, L. H., Urban, E. K. and Newman, K. (1982) *The birds of Africa*, Vol. 1. London: Academic Press.
- COLLAR, N. J., CROSBY, M. J. AND STATTERSFIELD, A. J. (1994) *Birds to watch 2: the world list of threatened birds*. Cambridge, UK: BirdLife International (BirdLife Conservation Series 4).
- CONVEY, P., MORTON, A. AND PONCET, J. (1999) Survey of marine birds and mammals of the South Sandwich Islands. *Pol. Rec.* 35: 107–124.
- DODMAN, T. (1995) A survey to investigate the status and distribution of the Black-cheeked Lovebird *Agapornis nigrigenis* in south-west Zambia. *Bull. African Bird Club* 2: 103–105.
- ENTICOTT, J. AND TIPLING, D. (1997) Photographic handbook of the seabirds of the world. London: New Holland.
- FRY, C. H. (1984) The bee-eaters. Calton, UK: T. and A. D. Poyser.
- FRY, C. H., FRY, K. AND HARRIS, A. (1992) Kingfishers, bee-eaters and rollers. London: Christopher Helm.
- FRY, C. H., KEITH, S. AND URBAN, E. K. (1988) *The birds of Africa*, Vol. 3. London: Academic Press.
- GAUCHER, P., THIOLLAY, J.-M. AND EICHAKER, X. (1995) The Sooty Falcon *Falco concolor* on the Red Sea coast of Saudi Arabia: distribution, numbers and conservation. *Ibis* 137: 29–34.

- GOODMAN, S. M., MEININGER, P. L., BAHA EL DIN, S. M., HOBBS, J. J., MULLIÉ, W. C. (1989) *The birds of Egypt*. Oxford, UK: Oxford University Press.
- HEATH, M. F. AND EVANS, M. I., EDS (2000) Important Bird Areas in Europe: Priority sites for conservation, Vols 1 and 2. Cambridge, UK: BirdLife International.
- TUCKER, G. AND HEATH, M. (1994) Birds in Europe: their conservation status. Cambridge, UK: BirdLife International.
- DEL HOYO, J., ELLIOT, A. AND SARGATAL, J., EDS (1992) Handbook of the birds of the world, Vol. 1. Barcelona, Spain: Lynx Edicions.
- MOREAU, R. E. (1972) *The Palaearctic—African bird migration systems*. London and New York: Academic Press.
- MUNDY, P., BUTCHART, D., LEDGER, J. AND PIPER, S. (1992) *The vultures of Africa*. London: Academic Press.
- SIBLEY, C. G. AND MONROE, B. L. (1990) Distribution and taxonomy of birds of the world. New Haven, USA: Yale University Press.
- WOEHLER, E. J. (1993) The distribution and abundance of Antarctic and sub-Antarctic penguins. Cambridge, UK: SCAR.

Appendix 6g. The species of pelican, stork, raptor and crane which migrate between the Palearctic and Afrotropical regions and which congregate at migration 'bottleneck' sites (identifiable as IBAs under the A4iv criterion).

Scientific name	English name
Pelecanus onocrotalus	White Pelican
Ciconia nigra	Black Stork
Ciconia ciconia	White Stork
Pernis apivorus	Honey Buzzard
Milvus migrans	Black Kite
Gyps fulvus	Eurasian Griffon
Neophron percnopterus	Egyptian Vulture
Aegypius monachus	Black Vulture
Circaetus gallicus	Short-toed Eagle
Circus aeruginosus	Eurasian Marsh-harrier
Circus cyaneus	Hen Harrier
Circus macrourus	Pallid Harrier
Circus pygargus	Montagu's Harrier
Accipiter nisus	Eurasian Sparrowhawk
Accipiter brevipes	Levant Sparrowhawk
Buteo buteo	Steppe Buzzard
Buteo rufinus	Long-legged Buzzard

Scientific name	English name
Aquila pomarina	Lesser Spotted Eagle
Aquila clanga	Greater Spotted Eagle
Aquila nipalensis	Steppe Eagle
Aquila heliaca	Imperial Eagle
Hieraaetus pennatus	Booted Eagle
Pandion haliaetus	Osprey
Falco naumanni	Lesser Kestrel
Falco tinnunculus	Common Kestrel
Falco vespertinus	Western Red-footed Falcon
Falco amurensis	Eastern Red-footed Falcon
Falco columbarius	Merlin
Falco subbuteo	European Hobby
Falco cherrug	Saker Falcon
Falco peregrinus	Peregrine Falcon
Grus grus	Common Crane
Grus virgo	Demoiselle Crane