A REVIEW OF THE LAND BIRDS OF THE WEST SUMATRAN ISLANDS

By

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Introduction

A perusal of the distribution list in the BOU Sumatran Checklist (Mark & Voous 1988) indicates a need for a systematic review of the birds of the West Sumatran islands. The objective of this paper is to summarize every species of land bird that has been recorded on each of the main islands, and to highlight those for which substantiating field records have been collected since 1970. At the same time, the opportunity is taken to comet any omissions and errors in the Checklist, and to add recent new island records. The summary table is presented in Appendix 1 and 2.

Although there may be only four endemics currently accepted at species level on me West Sumatran islands (three small owls and a white-eye), each of which has been confirmed as extant sance 1970, isolation has resulted in the evolution of a large number of endemic subspecies. While the status of subspecies is sometimes contentious, an objective of the summary fist is to draw attention to endemic taxa that may be endangered.

On many of the islands there has been extensive logging and deforestation, and this process can be expected to accelerate outside of gazetted and managed reserves. AH primary forest has already been removed from Nias, and Dymond (1994) concludes that the survival of three endemic subspecies is in doubt.

Thus an objective in preparing this review is to encourage ornithologists to visit those islands that have not been surveyed recently, and to confirm the continued presence of the species listed. It is also likely that a number of additions will yet be made to some island fists, and not only of migrant species.

A treatise on the history of research and the zoo-geography of the islands lies outside the scope of this paper. The introductoy chapers of Marle & Voous (1988) provide an adequate source of references. A more detailed summary is provided in Ripley (1944).

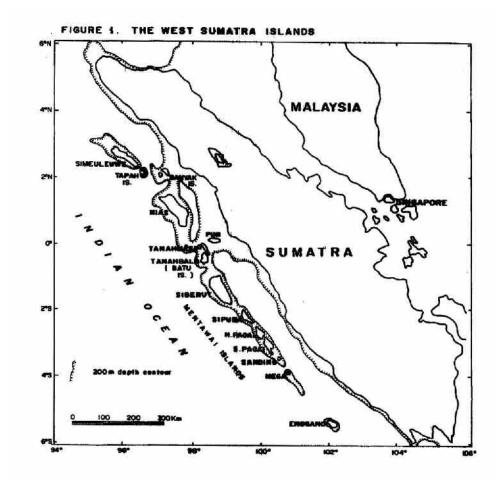






1994









Geography

The West Sumatran islands He in the East Indian Ocean, parallel to the Sumatran mainland and between 45 and 150 km from the coast (see Figure 1). Geologically, they represent the outer, non-volcanic arc of the Sundanese sub-continent, lying between latitudes 3°N and 5°30'S.

Conventionally the islands are split into a number of groups. Marie &. Voous (1988) recognize six: Simeuleuwe, Banyak Islands, Nias, Batu Islands, Mentawai Islands and Enggano. On the basis of the 100 fathom contour, I prefer to follow Ripley (1944) and separate the Tapah Islands. The seven groups, from north to south, with the central coordinates of their constituent islands, are listed below.

<u>Group</u>	Principal islands		
Simeuleuwe	Si - Simeuleuwe	02°40'N 96°00'E	
Tapah:	La - Lasia Bb - Babi	02°10'N 96°38'E	
Banyak:	Ub - Ujung Batu Tk - Tuangku Bk - Bangkaru Ni - Nias	02°10'N 97°17'E 02°04'N 97°07'E	
Batu:	Pi - Pini Sk - Simuk Te - Telo Tm - Tana Masa Tb - Tana Bala	00°04'S 98°17'E 00°10'S 98°27'E	(includes Lago)
Mentawai:	Sb - Siberut Sa - Sipora Np - North Pagai Sp - South Pagai Sd - Sanding Me - Mega	02°10'S 99°38'E 02°40'S 100°05'E 03°00'S 100°20'E 03°28'S 100°40'E 04°00'S 101°02'E	(includes Siburu)
Enggano	Eg - Enggano	05°24'S 102°16'E	



Among the small satellite islands for which there are data, Panjang is included with Ujung Batu, Lago with Tana Masa, Siburu with Sipora, and Marabau with Enggano.

Falls in sea level during the Pleistocene will have resulted at times in land bridges between mainland Sumatra and the Banyak Islands, Nias, the Batu Islands and the Mentawai Islands, the litter forming an elongated peninsula parallel to the mainland coast (see Whitten *et al.* 1984). It is more than half a million years since the Mentawai Islands had a land connection to the mainland. However, only Nias and the Batu Islands are considered to he on the continental shelf. It is believed that Simeuleuwe and Enggano, and probably also the Tapah Islands, Sanding and Mega, have never had any land connection (Whitten *et al., op. cit.)*. All the islands have been sufficiently isolated to permit the evolution of a distinctive set of subspecies. Characteristically, though, the avifauna is impoverished compared to that of the mainland, and many bird families are either absent or severely under-represented.

The islands are mostly hilly, although maximum elevations are only *ca.* 630 m on Simeuleuwe, 300 m on Bangkaru and Tuangku, 885 m on Nias, 380 m on Siberut, 300 m on Sipora, 340 m on North Pagai, and 300 m on Enggano. All the islands have more or less continuous high rainfall, and were originally covered in moist tropical forest. Land use maps produced by RePPProT (1988) show the land cover as of 1985. No satellite imagery was available at that time for Simeuleuwe and Enggano, but Simeuleuwe now has 1989 Landsat cover, and has been mapped by the National Forest Inventory Project of DG Forest Inventory and Land Use Planning in the Ministry of Forestry. The 1985 data are summarized as follows, updated with more recent data where there appear to be significant changes:

Simeuleuwe: *ca.* 60% forest cover in 1989. Dymond (Pers. Comm.) reported quite extensive forest, especially on the hills in the north of the island, but rapid clearance for the cultivation of cloves has been reported (author's data).

Tapah Is: Almost full forest cover in 1989. Banyak Is: 90-95% forest cover in 1989.

Nias: The most densely populated island and totally deforested, except for small patches of coastal and mangrove swamp. However, there is extensive, heavy secondary growth (see Dymond 1994).

Batu Is: Pini was mostly forested. Tana Masa and Tana Bala had extensive forest, with narrow cleared strips around the coasts, but by 1990, forest covered only ca.55% of Tanah Bala. Some of the satellite islands are totally deforested.

Siberut: Extensive forests remained, although there is much damage from logging and shifting cultivation.





Sipora: Extensive forest, but much damaged by logging at the north and south ends of the island; also a broad cleared coastal area.

N. Pagai: Extensive forest, but a broad cleared coastal area, *ca.* 85% cover in 1986.

S. Pagai; Extensive forest, bat a mosaic of secondary growth around the coast, and heavy logging damage in the north, *ca.* 95% cover in 1986.

Enggano: No satellite dtta, but quite extensive forest (J. Cochrane in tiff.).

None of these forests are considered safe from agricultural development, except in gazetted and managed reserve*. Isolation has hitherto discouraged rapid development, but facilities are being steadily improved. The existing and proposed protected areas listed in RePPProT (1988) are follows:

Simeuleuwe: Recommended game reserve, 25,700 ha (measured area on map was 45,500 ha);

Bangkara: Proposed nature reserve (entire island);

Nias: Four proposed game reserves (48,800 ha, but measured areas was 63,000 ha);

Siberut: Tai Tai Batti gazetted game reserve (56,500 ha, but measured area was 71,500 ha), ttr recommended Siberut II game reserve (107,300 ha, but measured area only 50,100 ha), and a recommended nature reserve along the SE coast;

Enggano: Nanua gazetted hunting reserve (10,000 ha, but measured area only 5,600 ha), and for small recommended game reserves (1,600 ha)'

Structure of the Review

Every species that hag been reported from each of the main islands is tabulated in Appendix 1. Only land birds are listed. Endemic taxa are indicated, as well as status for each species (resident, migrant or indeterminate). All species that have been recorded since 1970 are indicated with an 'X'. New island observations not already included in Marie & Voous (M&V) are identified by the initials of the observer.

Omissions and errors in the Sumatran Checklist (M&V) are discussed first, followed by a list of new island records and comments where appropriate. Observers who have submitted records are listed in Appendix 1.





Van Marle & Voous - Omissions and Corrections

Ardeapurpura - Mega (Gill 1969). Butorides striatus

South Pagai (Ripley 1944). Accipifer soloensis

Panjang (Ujung Batu) (Gill 1969)

Dendrocygna arcuata - Nias. Ripley (1944) states that Buttikofer (1896) refers to *D. javanica*, however the presence *ofarcuata* on Nias has now been confirmed by Dymond (1994).

Treron olax - Ripley (1944) reports that Von Rosenbuerg (1878) recorded this species on "all the larger islands", but there were no specimens or subsequent sightings until Dymond (1994) reconfirmed the species for Nias.

Ducula badia - reported during the last century on Nias, the Mentawai Islands and Enggano (Rosenberg 1878 - M&V list only Nias), but there were no specimens or subsequent sightings until Dymond (1994) reconfirmed the species for Nias

Caloenas nicobarica - Siburu (Sipura) (Gill 1969). Ripley (1944) lists an unspecificed island in the Batu Islands.

Hemiprocne comata - Tanah Masa (Ripley 1944).

Ceyx erithacus - Ripley (1944) states that there is a sight record from "the Pagai Islands", without specifying which. He also quotes a sight record from Bangkara. M&V refer to captus on Nias but omit Nias from the distribution.

Halcyon coromanda - Lasia (Ripley 1944).

Meiglyptes tukki - Pini (Ripley 1944).

Pycnonotus plumosus - South Pagai (Ripley 1944).

Irena puella - Tuangku, Nias (Ripley 1944). There is an error in M&V (p. 161) where Tanah Masa and Tanah Bala are listed under the Banyak Islands.

Copsychus malabaricus - Ripley (1944) accepts only two sub-species for the region: melmwra on Simeuleuwe, the Tapah Islands, Nias and the Mentawai Islands, and opitfwpelia from the Banyak and Batu Islands. He does not agree to the separation of opisthisa of the Banyak Islands from opisthopelus





of the Batu Islands, However, the intermingling distribution of these subspecies would warrant further analysis.

Anthreptes simplex - Dymond (1994) argues that the 1886 Nias record requires verification.

Anthreptes malaensis Sanding (Gill 1969).

Arachnothera ckrysogenys - North Pagai (Riplcy 1944 - the "Pagai Mauds").

Lonchura maja - Siberut (Mrtchell 1983).

Corvus macrorhynchos - Dymond (1994) gives reasons for questioning the historical record from Nias.

Species new to Simeuleuwe (Nick Dymond, 26-30 May 1990 - in Litt.)

White-browed Crake *Porzana cinerea*Blue-crowned Hanging-parrot *Loriculus galgulus*Richard's Pipit *Anthus novaeseseelandiae*

Comment'

Attention is drawn to the Asian Koel *Endynamys scolopocea simalurensis* on Simeuleuwe. This putative endemic taxon was reported to be a common breeding resident, although there are no breeding records and no recent observations.

Species new to Nias (Dymond 1994)

Great Egret Casmerodius albus
Lesser Sand-plover Charadrius mongolus
Terek Sandpiper Xenus cinereus
Large Green Pigeon Treron capellei
Brown Shrike Lanius cristatus
Common Stone-chat Saxicola torquata (Dymond 1993)
Oriental Reed-warmer Acrocephalus orientalis
Olive-backed Sunbird Nectarnia jugularis
Tree Sparrow Passer montanus

Species new to Telo (N. de Sadeleer & R. de Schaetzen, 27 August 1985, *in litt*.)

Large Green Pigeon Treron capellei





Pink-necked Green Pigeon Treron vemans
Blue-eared Kingfisher Alcedo meninting
Buff-necked Woodpecker Meiglyptes tukki
Grey Wagtail Motacilla cinerea
Green lora Aegithina viridissima
Greater Greea Leafibird Chlropsis sonneratii
Chestnut-milled Babbler Stachyris maculatus
Striped Tit-babbler Macronous gularis
Grey-headed Flycatcher Culicicapa ceylonensis
Black-naped Monarch Hypothymis azurea
Copper-throated Sunbird Nectarmia calcostetha

Comments

- 1. Chinese Pond-heron *Ardeola bacchus*. The record in M&V is of an immature bird. It is recommended to delete this record, because it was not specifically separated from *A. speciosa*, which may also occur in these islands.
- 2. The observers are confident of their identification of the Large Green Pigeon, a species that they had previously recorded on Siberut. Only the Siberut record is included in M&V.
- 3. Wreathed Hornbill *Rhyticeros undulatus*. The record by the same observers that is accepted by M&V is exceptional, as this species has not been recorded on any West Sumatran island, although *R. corrugattus* is known from other islands in the Batu group. It is recommended that this record is held pending until there is further confirmation.

Species new to Siberut (N. de Sadeleer & R. de Schaetzen, Sep 1982 and Aug 1985, in lilt.)

Greater Sand-plover *Charadrius leschenaultii* Bar-tailed Godwit *Limosa limosa*

Comments

- 1. Black Bittern *Ixo6rychus flavicollis*. *As* observed by M&V, the dates of the Siberut records (two birds on 17 Aug and three on 21 Aug 1985) imply the possible presence of a resident population.
- 2. Storm's Stork Ciconia stormi. Although specimens are known from North Pagai, the author believes that the sight records by AJW and S&S should be deleted, pending further confirmation. It seems likely that these observers were unaware at the time that the Woolly-necked Stork C. episcopus occurs on the Sumatran mainland, and appears to be expanding its range. Future observers on the islands should pay close attention to Ciconia storks.
- M&V is not specific from which Mentawai Islands the Greater Sand-plover has been recorded. Ripley (1944) lists only Sipora.
- 4. The record of the Brown Wood-owl *Strix leptagrammica* in M&V is only a voice record (S&S). In the opinion of the author, further details would be required before adding this species to the Siberut list.





Species new to Sipura (Kenneth Thompson, 1974-79, in lilt.)

Brahminy Kite Haliastur indus
Collared Kingfisher Halcyon chloris
Straw-headed Bulbul Pycnonotus zeylanicus
Yellow-bellied Prinia Prinia flavrventris Grey-headed
Flycatcher Culicicapa ceylonensis

- Pink-headed Fruit-dove *Ptilinopus porphyreus*. As commented in M&V, this interesting record requires confirmation.
- 2. M&V is not specific on distribution *of Halcyon chloris*, but Ripley (1944) does not list Sipura, and the record is assumed to be a new one for the island.
- Grey-and-buff Woodpecker Hemicircus concretus. The only record for the islands is already listed by M&V. It is worth noting that KVT recorded this species during both 1974 and 1979 at the same locality.
- 4. The voice record of *Pycnonotus zeylanicus* by KVT is not included in M&V. There seems no reason to discredit a record of a species with such a distinctive voice, but the possibility of this very popular cagebird being introduced cannot be ruled out. KVT also refers to brown bulbuls in the *simplex brunneus erythropthalmus* group, but these are not specifically identified. None are known from the Mentawai Islands.
- KVT has several records of a small wren-babbler in 1974, suspected to be Eye-browed Wrenbabbler Napothera epilepidota. This note is appended here solely to alert observers to the possibility of wren-babblers occurring on the Mentawai Islands.

Species new to Enggano (Janet Cochrane, Jan 1991, in litt.).

Great-billed Heron Ardea sumatrana Striated Heron Butorides striatus Whimbrel Numenius phaeopus Fork-tailed Swift Apus pacificus





Discussion

Nias has the longest bird list, reflecting its close affinities with the mainland. It is, however, also the island that has received the most attention from the early collectors, because of its relative accessibility. Its natural habitats have now been almost completely destrotyed, and it must be assumed that species unable to adapt to secondary habitats are now extinct. Dymond (1994) spent two weeks on the island during May 1990 and concluded that the continued survival of eight subspecies remains unproven.

On the other hand, it may perhaps be assumed that all endemic taxa on the other islands are extant. However, there is evidence of severe habitat degradation through logging on some islands, particularly Sipora and North Pagai, which could place some taxa at risk. Another risk is excessive hunting. The Red-breasted Parakeet *Psittacula alexandri*, which is represented by three endemic subspecies, is reported to be a popular pet; it is not known whether any are exported from the islands, though this seems likely. The *robusta* subspecies of the Hill Myna *Gracula religiosa* on the Banyak Islands and Nias suffers particularly heavy demand for the domestic (and possibly international) pet trade.

If the rate of rapid deforestation that is being experienced now on mainland Sumatra extends to the West Sumatran islands, the relatively secure situation that prevails there now could change drastically. Communications to most of the islands are still difficult, but improvements can be expected which could result in many new pressures. It is therefore imperative to pay urgent attention to the establishment and management of protected areas, and visiting ornithologists and bird-watchers could have a major role to play in their planning.

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APPENDIX 1. TABULATED CHECKLIST OF THE LAND BIRDS OF THE WEST SUMATRANISLANDS.

Status (first column);

- I indeterminate.
- R resident/presumed resident.
- M migrant/presumed migrant.
- E endeimc species-
- E endemic sub-species on some islands, but not necessarily an islands. Sub-species are numbered with a suffix 1-4 in the island columns. No suffix is used when all relate to a single endemic sub-species; also when an island population is the same sub-species as occurs on **the mainland**.

Island columns;

- -- known to occur (pre-1970).
- X field records since 1970.

Initials of observers holding new island records:

- AM A. MitcheU (Simenleuwe 1981, includes records of J. Wind; Siberut 19g3),
- JC J. Cochrano (Enggano Jan 1991).
- NB-N, Dymond (Simenleuwe and Nias -May 1990).
- SS-N. de Sadeteer & R. de Schaetzen (Siberut-Aug. 1982 and Aug. 1985; Tello-Aug. 27 1985).
- KT K.V. Thompson (Sipura May 1974 and June 1979).
- AW A.J. Written (Siberut -1977-78)





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Great-billed Heron	Ardea sumabana	ī	-		-	-		Ε.		Н		X				1C	
Purple Heron	Ardea purpurea							- X				X			-	X	
Great Egret	Casmerodius albus							ND				X					
Intermediate Egret	Egtetta intermedia																
Little Egret	Egretta garzetta							١.								X	
Chinese Egret	EgreSa eulophotes													7			
ReefEgret	Egretta sacra	I	X			-		X	X	_		X	Ŀ	-	-	X	
Chinese Pond-heron	Ardeola bacchus	ш						<u> </u>	ç								
Striated Heron	Butorides striatus	шə	wХ					×	H	H	Н	×	×	ŀ	ŀ	ЭC	
Black-crowned Night-heron	Nycticorax nyclicorax	w						-								-	
Malayan Night-heron	Gorsachius melanolophus	ш											-			-	
Yellow Bittern	L xobrysnus sinensis	ш						X					Н				
Cinnamon Bittern	Lxobrychus cinnamomeus	Į								Н		X				X	
Black Bittern	<i>Exobtychus Havicollis</i>	ш										X					
Storm's Stork	Ciconia stomi	Į											7	-			
Osprey	Pandion haliaeetus	ш	X						X	Н			Н				
Oriental Honey-buzzard	Pemis plilorhynchus	1										X					
Brahminy Kite	Haliaslur indus	ī	X		-	-		X				X	KT	- т	-		
White-bellied Sea-eagle	Haliaeefus leucogaster	I	X	-	-	-	_	X	X			X	X	-	-		
Grey-headed Fish-eagle	Ichthyophaga ichthyaetus	Į											X				
Crested Serpent-eagle	Spilomis cheela	е	IX					X2		-3	-3	'Χ	X4 X4	1	4	4	
Crested Goshawk	AccipHer trivirgatus	е						X				-					
Chinese Goshawk	$Accip Uer\ soloens is$	m	-														
Japanese Sparrow-hawk	Accipiter gularis	ш	-	-			Ť	_					Н				
Black Eagle	IcSnaelus malayensis	ŗ															
Changeable Hawk-eagle	Spizaefus cirrhatus	е	-1									X					
Blyth's Hawk-eagle	Spizaetus alboniger	ŗ	-									X_{i}	i	-			
WSallace's Hawk-eagle	Spizaefus nanus	е					Ť	_		Н		X3	;				
Eurasian Kestrel	Faico linnunculus	ш															
Peregrine Falcon	Fako peregrinus	m	3					_	Н	Н		-	\vdash	Н	H	-	
Wandering Whistling-duck	Dendrocygna arcuate	i						X						_			
Lesser Whistling-duck	Dendrocygna javanica	ij						_				X					





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			iΣ	La	Bb	ř	쓢	ź	<u>i-</u>	<u>e</u>	Тm	Tb	Sb Sa		Np Sp	g	띱
Slaty-breasted Rail	Gallirallus striaius	_	×	L			L										
Red-legged Crake	Rallina fasciata	ļ						-		-			×	-			-
White-browed Crake	Poliolimnas dnerea		ND														
White-breasted Waterhen	Amauromis phoenicurus	r	×					×		-			X	X	-	-	×
Purple Swamphen	Porphyrio porphyrio	Ŀ	L				L										
Grey Plover	Pluvialis squatarola	٤		L			L						×				
Pacific Golden Plover	Pluvialis lulva	٤	×					×	-	×	-	-	X	-			×
Little Ringed Plover	Charadrius dubius	٤											×				
Malaysian Plover	Charadrius peronii	r						-					X				
Lesser Sand-plover	Charadrius mongolus	E	Ŀ					ΠN	¿	-	7	۷	X,				×
Greater Sand-plover	Charadrius leschenaultii	٤						×	-				SS	-			
Whimbrel	Numerous phaeopus	٤	×					×	-		7	2	×	-	2	۷	$^{\circ}$
Eurasian Curiew	Numenius arquata	ш				-		-,		×			X				
Black-tailed Godwit	Limosa limosa	E											SS				
Bar-tailed Godwit	Limosa lapponica	٤						-					×				
Common Redshank	Tringa totonus	٤	_					×	7	2	-	2	×				
Common Greenshank	Tringa nebularia	ш	×					-					X				
Wood Sandpiper	Tringa glareola	٤	_										×				
Terek Sandpiper	Xenus cinereus	٤						ND					×				
Common Sandpiper	ftcSlis hypoleucos	٤	×		-	<u>'</u>	7 7	- ,	-	×	7	2	×	4	-	-	×
Ruddy Tumstone	Arenaria interpres	٤	Ŀ					-	7	۷	7	7	×	-	7	2	×
Pintail Snipe	Gallinego stenura	٤	_					-					×	-	-	-	
Sanderiing	Calidrisalba	٤											×				
Rufous-necked Stint	Calidri\$ rufcoffis	٤	_					×					×				
Curiew Sandpiper	Calidris ferruginea	٤						-					×				
Beach Thick-knee	Esacus magnirostris	L	×		_	_		-					×				
Oriental Pratincole	Glareola maldivamm	٤											X	-			
Large Green Pigeon	Treron capellei							ΩN		SS			SS				
Thick-billed Green Pigeon	Treron curwostra	ө	X		-3			X2		-3		-3	-3 X3	X3			X 4
Cinnamon-headed Green Pigeour fulvicollis	geveron fulvicollis	Ф						×					×				
Pink-necked Green Pigeon	Treron vemans	е	×				Ц	×		SS	-	-	×	×	-		×
Jambu Fruit-dove	Plilinopus jambu	٢															
Green Imperial Pigeon	Ducula aenea	Φ	×	7	7	7	_	×		×		7	-1 ×1 ×	×	7	7	-1 X2





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Mountain Imperial Pigeon	Ducula badia	L					Ť	×		Н	Н	H				7
Pled Imperial Pigeon	Ducula bicolor	r	- ×		_			- ×	×	-		×	×	-	-	-
Silvery Pigeon	Columba aigentina	L	-										-		-	
Ruddy Cuckoo-dove	Macropygia emiliana	Э	X1				ì	X2				X3	X3		-3	-3 X4
Little Cuckoo-dove	Uacmpygia rufceps	Э	-							_		H				
Emerald Dove	Chalcophapsindica	L	- ×					×	-			×		-		×
Nicobar Pigeon	Caloenas nicobaika	L	-		-		Ė		۷ ک	_	7	7	-			×
Red-breasted Parakeet	Psittacula alexandri	Э	X1	-2	-2		ì	X3								
Long-tailed Parakeet	Psittacula Iongicauda	Э								-						×
Blue-mmped Parrot	PsHSnuscyanunis	Э	X1							_		X2	X2		``	-2
Blue-crowned Hanging-parro Loriculus galgulus	Loriculus galgulus	L	ND		•		ì	- >	-			×	-			-
Chestnut-winged Cuckoo	Clamaior commandus	ш								Н		×				
Hodgson's Hawk-cuckoo	Cuculus fugait							-				-				
Indian Cuckoo	Cuculus micmptenis	mr						u-			-					
Oriental Cuckoo	Cuculus saturatus	ш	-				Ė			_						
Banded Bay Cuckoo	Cacomanfs sonneiatil	L						-		-						×
Plaintive Cuckoo	CacomanSs merulinus	Į.						>				×				×
Rusty-breasted Cuckoo	Cacomantis sepulcralis	L	×													-
Vbtet Cuckoo	Chrysococcyx xanthortiynchus	L	-							_		×	-			
Drongo Cuckoo	Sumiculuslugubris	ш					Ė			-						
Asian Koel	Eudynamys scotopacea	m,?r							-	-		×		-	-	
Chestnut-bellied Makoha	Rhopodyfes sumafranus	е						-								
Raffles'Mahoha	Rhinortha chlorophaea	ө								1						
Chestnut-breasted Malkoha	Rhamphococcyx cuivirostris	ө								_		×	×	-		
Greater Coucal	Centmpus sinensis	r					ì	×	Н	Н		×				
Oriental Bay Owl	Phodllusbadius	ı														
SImeulue Scopsowl	Ohis umbra	Ξ	×													
Enggano Scopsowl	Ofus enganena's	Ξ							_	Н						×
Mentawal Scopsowl	Otusmentam	Э								Н		×	×	-	×	
Buffy Fish-owl	Kehlpa ketupu	ө								Н						
Brown Boobook	Ninof scutulata	Ε								_		×				
Brown Vtood-owl	Strixleptogrammica	Ф					-1	-5	-	-		X	_			
Malaysian Eared Nightjar	Eumstopodtis temminclai	_								Н	\vdash		Ц	Щ	Щ	

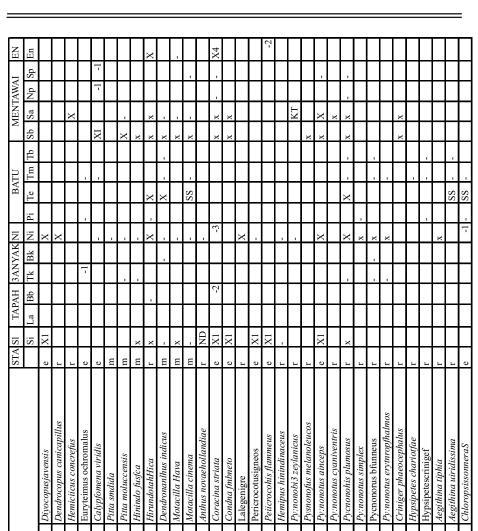




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			is	La	qg	_ 	BĶ	ī	<u>.</u>	<u>.</u> В	Tm T	Tb (Sb Sa		Np Sp	1	Ш
Great Eared Nightjar	Eurostopodus macroSs	Φ										H	H	H		H	
Savanna Nightjar	Caprimulgus affinfe	ı	Г					Ι.		Г			Г	H			
Edible-nest Swiftlet	Aerodramus fuciphagus	ı	LX	Ė	Ċ			ċΧ		×		$\hat{}$	- ×				
Black-nest Swiftlet	Aerodramus masmus	ļ	żΧ	Ė				ZX					١ ان	_			
Glossy Swifflet	Collocalia esculents	Φ	×			Г		×		Г	-2	Â	×	X2 X	X2	Ĥ	
Folk-tailed Swift	Apus pacUicus	ш	Г						Ť	×		Î		H		7	ပ္
Grey-lumped Tree-swift	Hemipnxne longipennis	ө	×					×	Ė	Ė		$\hat{}$	×		-	^	
Whiskered Tree-swift	Hemipmcne comata	ı										$\hat{}$	- >	-			
Scariet-rumped Trogon	Harpactes duvaucelii	L								Ė							
Orange-breasted Trogon	Harpactes oresloos	ө						×									
Common Kingfisher	Alcedoatthis	ш			Ė	Ť.	خ ا	Ė				$\hat{}$	×			^	
Blue-eared Kingfisher	Alcedo menintfng	L	-		·			×	-	S3 -	-	`	- >	-	-	^	
Oriental Dwarf Kingfisher	Ceyxerifhacus	ө	X1				-1	X2			-1	-1	- >	خ	خ		
Stork-billed Kingfisher	Pelaigopsis capensis	ө	X1		-2	-2		X2	-2	X2		`	X2 >	X2	-2	-2	
Ruddy Kingfisher	Halcyon coromanda	ı	Ė.							Ė		$\hat{}$	$\langle \ \rangle$	- >			
Black-capped Kingfisher	Halcyon pileafa	ш	×	Ė					-			`	- >	-	-		
Collared Kingfisher	Halcyon chloris	ө	X1		-1			X1	-1	×	-1		-1	ΚΤ		$\hat{}$	X2
Rufous-collared Kingfisher	Actenoides concietus	٦										_	^)			
Chestnut-headed Bee-eater	Meropsleschenautti	ш	-														
Blue-tailed Bee-eater	Merops philippinus	Е	×		Ė							$\hat{}$	>		-		
Blue-throated Bee-eater	Merops viridis	L						-5									
Common Dollarbird	Eurystomus orientalis	epin	-1					ų-		-nr			Xm -	ı- u-	- u-	m-	
Wrinkled Hombill	Rhyticeros comigatus	L								Ė	-						
Wreathed Hombill	RhySceros undulatus	į								SS							
Asian Pied Hombill	Anthracoceros albiroslris	e?						×		×	-	$\hat{}$	×	- >	-		
Red-throated Barbel	Megalaima myslacophanos	Φ								İ	-			Н			
Blue-eared Barbet	Megalaima australis	ө						X1			-2						
Rufous Picutet	Sasia abnonnis	Ф						×									
Rufous Woodpecker	Celeus brachyunis	ө															
Crimson-winged Yeltownape	Picus puniceus	Ф															
Banded Woodpecker	PKUS miniaceus	ө						×									
Buff-rumped Woodpecker	Meiglyptes frisSs	٦						×									
Buff-necked Woodpecker	Meiglyptestukki	Ф			İ			×	-2	SS	-5						







Bar-bellied Cuckoo-shrike

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Black-and-white Bulbul Black-winged Hemipus

Straw-headed Bubul

ScartetMinivet

iery Minivet

edTrilter?

Black-headed Bubul Olive-winged Bubul

Grey-bellied Bubul





3rey-and-buff Woodpecker Black-and-yellowBroadbill

Blue-winged Pitta

Barn Swallow orest Wagtail Yellow Wagtai Richard's Pipit

Green Broadbill

Hooded Pitta

acific Swallow

3rey-capped Woodpecker

White-bellied Woodpecker

Greater Green Leafbird

(ellow-bellied Bulbul

Spectacled Bubul Red-eyed Bulbul

Iairy-backed Bubul

Common lore

Green lora

Buff-vented Bulbul

Cream-vented Bubul

APPENDIX 2. SMALLISLAND LISTS

The small islands have too few records to justify a column Appendix 1. These are listed here:

Ujung Batu (Banyak Islands) (includes the island of Panjang): *Accipiter soloensis, Pluvialis squatarola, Nectarinia jugularis.* In addition, the following species are listed merely as "Banyak Islands" and may be expected to occur: *Numemus arquata, Actitis hypoleucos, Alcedo atthis.*

Simuk (Batu Islands) (No species are specifically named, but the following species are listed as "Batu Islands"): *Pluvialis julva. Charadrius mongolus. Tringa totanus, Numenius phaeopus, Actitis hypoieucos, Arenaria interpres, Caloenas nicobarica,*

Sanding (Mentawai Islands): *Pandion haliaetus, Limosa lapponica, Eudynamys scolopacea, Aerodromus fuciphagus, Motacilla cinerea, Anthrepfes mcdacensis.*

Mega (Meatawai Ishrnds): Ardea purpurea, Eudynamys scolopacea, Ninox scutulata, Nectarinia jugularis, Zosterope salvadorii

The following are listed as having more general distribution, and assumed to have been recorded on both Sanding and Mega Islands: *Numemus phaeopus: Actitis hypoleucos, Arenaria interpres, Ducula badia.*



