

# OPERATION WALLACEA

# RESULTS OF THE 1996 BIRD SURVEY OF BUTON ISLAND,

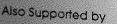
SULAWESI,

**INDONESIA** 

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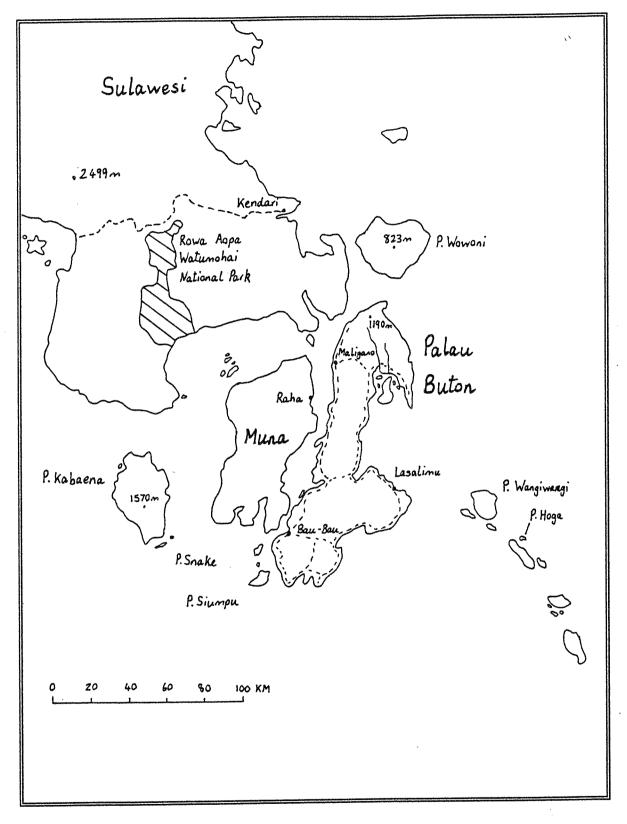
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#### **ABSTRACT**

Buton is a hilly island, situated just off the south-east peninsula of Sulawesi, in the Flores Sea. The island is fairly large measuring some 150 km long by between 10 and 30 km across, and reaches an altitude of just over 1100 m. Scientifically Buton is little known and hardly any recent information is available on the avifauna of the island. In June 1995 Operation Wallacea started a three year bird survey of Buton Island designed to produce a detailed bird atlas of the island and help with information needed for future conservation projects. To date 231 bird species have been recorded from Buton Island, the vast majority of which have been added by the expeditions carried out by Operation Wallacea.

In 1995 Buton Island was divided into 85 Squares, using a grid system similar to that utilised by the Ornithological Society of Indonesia. During the 1995 Bird Survey 33 squares were surveyed and a total of 187 bird species were identified. Between June and November 1996 12 different teams of volunteers surveyed 44 squares, including 22 new squares. During the survey a total of 207 species were recorded, including 52 Sulawesi endemics and 9 Indonesia and endemics. Most Sulawesi endemics proved both common and widespread with 20 species having been recorded from 50% or more of the Buton squares. It is particularly interesting to note that the 1996 Bird Survey added no less than 35 birds to the Buton list including 5 Sulawesi endemics. Of major conservation importance is the presence of 19 threatened and near-threatened bird species on the island, including two species classified as 'endangered' by Birdlife International - Nordmann's Greenshank and the Yellow-crested Cockatoo.

Figure 1: Map of South East Sulawesi and Buton Island.



#### 1: INTRODUCTION

The land masses of the biologically rich region of Wallacea have been isolated for a long time. Lying between the Sunda Shelf of continental Asia and the Sahul Shelf of Australia the region has developed elements of both Asian and Australian fauna and flora. The regions long isolation has resulted in a very high proportion of endemic species, with Sulawesi, the largest island in the region, having the most important centre of bird endemism in Wallacea. Birdlife International has designated 2 Endemic Bird Areas (EBAs) for Sulawesi, as the island supports 57 restricted range species (birds with a global distribution of <50,000 square km). Sulawesi has strong affinities to the Talaud, Sangihe, Peleng, Banggai and Sula island groups and a number of restricted range species are shared between them. If these 2 additional EBAs are included then the number of restricted range species increases to 98, of which 85 occur on Sulawesi (See Appendix 1).

The aim of the Buton Island Bird Survey is to make a complete inventory of the avifauna of Buton Island and to produce a detailed bird atlas for the island. It is hoped that the results will provide a better understanding of the avifauna of this little known area and will identify key areas for future conservation purposes.

The projects objectives are as follows:

To systematically record all bird observations made on Buton Island.

• To make detailed notes on, and detailed descriptions of, threatened and restricted-range species observed on Buton.

• To work with local officials and people to help raise their awareness of the importance of birds and the importance of conservation in general.

• To provide data to help with the creation of a National Park at the north end of the island.

In order to facilitate this Buton has been divided into a framework of 85 5' (minute) squares - representing 5' latitude by 5' longitude. Each square is roughly 5 miles by 5 miles (Figure 2). During the three year survey it is intended that at least 8 team hours will be spent per square. A similar grid system has been adopted by the Ornithological Society of Indonesia, using larger 10' squares.

# 2: LAND USE AND PROTECTED AREAS ON BUTON

# 2.1: LAND USE DIVISIONS ON BUTON

Buton Island has been divided into a number of land use categories by the Forestry Department of Indonesia (shown in Figure 3), which are designed to take account of local environmental conditions and potential economic activities that these areas can support. Only certain economic activities are allowed in different land use categories, but this is often difficult or impossible to implement on the ground. A great deal of importance is placed on watershed protection, especially since the introduction of irrigated cultivation systems. Watershed protection has meet with varying degrees of success and seems to be largely dependent on the knowledge of local people involved in paddi cultivation. Watersheds around Lawelle are extremely well protected and extensive tracts of mature forest can be found on the hills around the settlement. Education programmes on forest conservation

paddy

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Figure 2: Map of Buton and it's Division into 85 Squares.

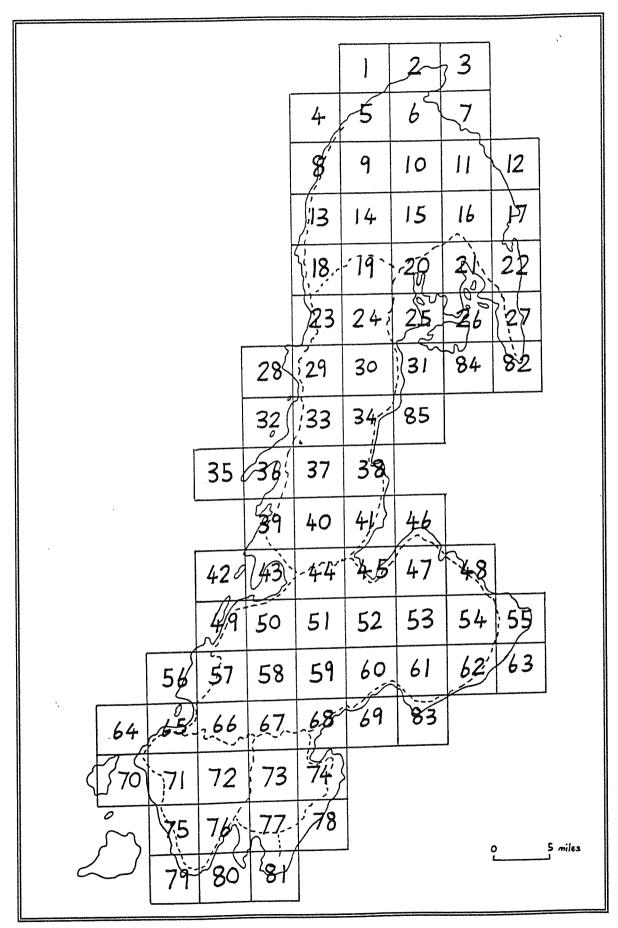


Figure 2: Map of Buton and it's Division into 85 Squares.

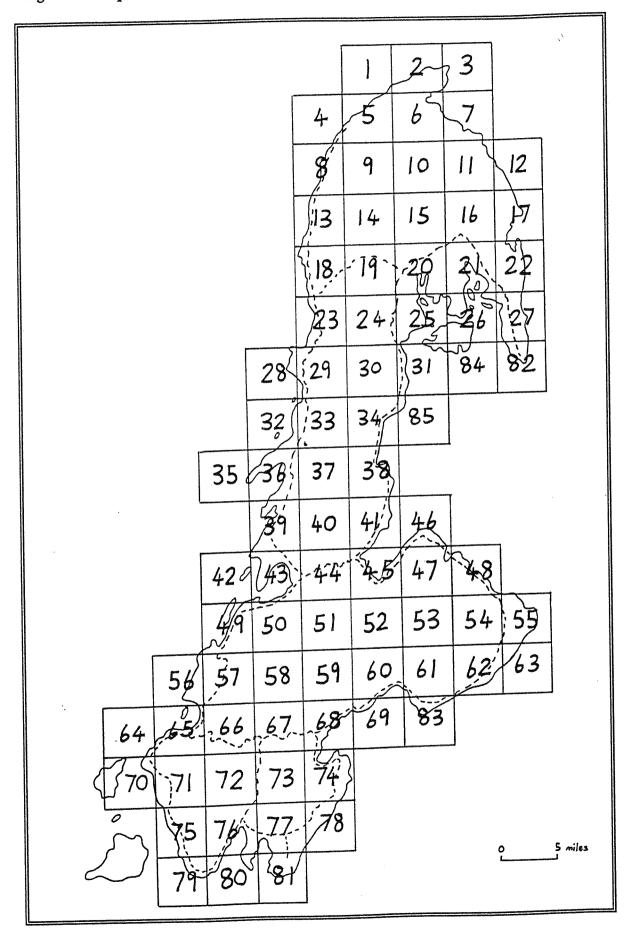
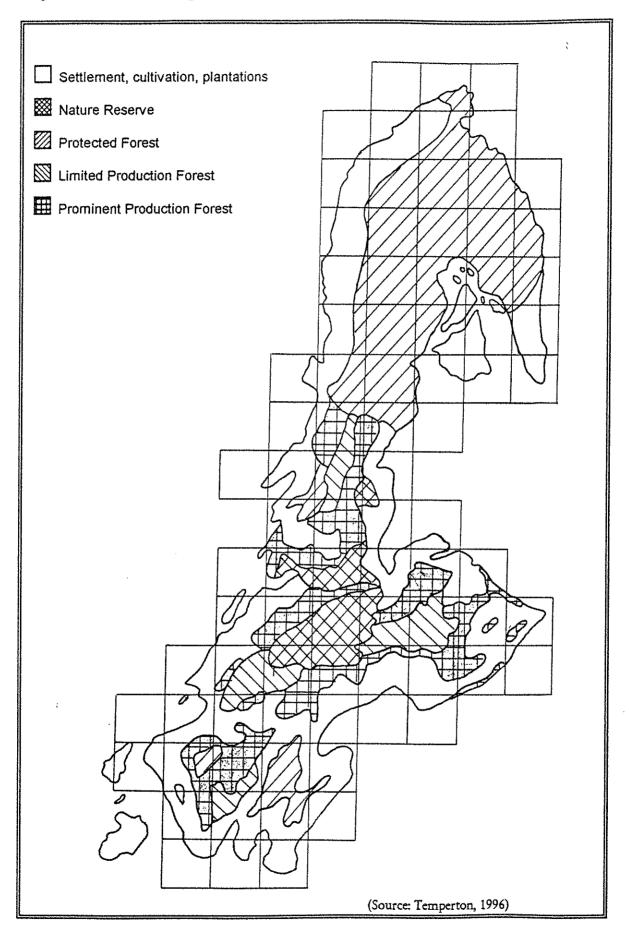


Figure 3: Land use Map of Buton Island.



are underway on Buton and volunteers were asked to participate in forest conservation talks on a couple of occasions.

# Definitions of land use categories found on Buton are as follows:

#### 1. Conservation Areas

Nature Reserve - no activities other than land improvement are allowed and there is no provision for traditional use of the area by the indigenous population.

Protected Forest - protected due to the importance of the forest as a watershed; limited numbers of trees may be felled and allowed to regrow.

#### 2. Production Forest Areas

<u>Limited Production Forest</u> - coppicing of trees is only allowed.

<u>Prominent Production Forest</u> - areas of full-scale tree felling allowed including the clearing of entire areas, and the replanting of economically important tree species.

#### 3. Cultivation/Settlement Areas

<u>Plantation or Cultivation Area</u> - consisting of extensive cultivated fields, paddies, fish ponds and plantations (usually cashew nut or coconut).

**4. Settlement with Mixed Cultivation** - consists of areas with villages and towns and the surrounding fields containing various crops believed to be cultivated primarily for subsistence.

#### 2.2: PROTECTED AREAS

A number of protected areas already exist on Buton and a National Park, at the northern end of the island, is currently awaiting designation by the relevant ministry. Currently only two types of protected area exist on Buton - Protected Forest and Nature Reserves - but neither category is sufficient to guarantee protection. The present out-of-date legislation provides little protection for conservation areas from competing land-uses; for example, legislation provides protection for wildlife in game reserves, but does not provide protection for habitats, which means that timber concessions may be legally granted in these reserves at the discretion of the Director-General of Forestry. Nature Reserves are in theory fully protected, but this is often overlooked by local officials. Lack of consultation between the powerful Transmigration Ministry and ministries connected with the protection of forests and other natural resources is a major problem, which has often resulted in the establishment of transmigration sites within 'protected areas'.

There is (or was) a large area of protected forest in the north of Buton which is believed to contain primary or at least mature secondary forest. This area is due to be designated as a National Park, but legislation has still not been passed and the conservation value of this site is rapidly diminishing. Currently the protected forest is afforded little if any protection as a large transmigration site has been established in the area centred around the settlement of Ronta (Square 15). Aerial surveys have shown that the forests in Squares 15, 16, 20, 24 and 25 have already been devastated and that substantial tracts have been felled in adjacent squares. Large areas of untouched forest still exist, but these are increasingly restricted to

steeper slopes and rougher terrain, particularly in Squares 6, 9, 10, 11 and 14. If action is not taken immediately to designate what remains of the "protected forest" as a National Park, then the future conservation value of the area will be irreversibly damaged.

A number of protected forests and nature reserves already exist in the south of Buton. The largest nature reserve is centred on Square 51, but it is currently not known whether this reserve is sufficiently large enough to be of optimal benefit to wildlife. Major land-use changes may need to be implemented and the extension of existing protected areas into adjacent areas of 'production forest' is strongly recommended. Results of surveys in the south of Buton have highlighted the importance of a number of forests, many of which are comparatively small. These forests are often close to centres of habitation and have survived due to the efforts of local village headmen and forest wardens. Due to their close proximity to both villages and road networks, these forests could play a vital role in the development of ecotourism initiatives. These sites are also ideally placed for the implementation of community based conservation projects which could be designed to involve local people, particularly school children, in conservation activities.

Table 1: Important Sites for Conservation Projects	
Site Name	Square Number
Day Pay	65
Cockatoo Breeding Site near Bau-Bau	44
Hill forest above La Bundo-Bundo	. 45
Lowland forest near Lawelle	18 & 19
Hill forest north of Maligano	13
Maleo Breeding Site	
Lowland forest & coastal areas east of	55
Lake Togomotonu	<u> </u>

# 3: INITIAL RESULTS OF THE BUTON BIRD SURVEY

Initial results from the 1995 and 1996 bird surveys of Buton Island have been extremely encouraging with 229 species (231 if old records are included) so far having been recorded, including 52 Sulawesi endemics (this figure includes species restricted to Sulawesi and adjacent islands) and 9 Indonesian endemics. Prior to the Operation Wallacea Expeditions little ornithological interest had been shown in the island, and the total number of birds recorded from Buton stood at only 78, including just 24 Sulawesi endemics. One early expedition to Buton described the island as extensively deforested, being covered with dry savanna and grasslands (van Bemmel & Voous, 1951), while the avifauna was described as being impoverished Sulawesian - the number of endemics being limited by the degraded environment. Early habitat assessments of Buton have proved misleading, as while parts of the south have been heavily degraded, much of the island is still covered by forest, especially in the north of the island. Much of the forest is secondary, at various stages of development, but extensive areas of old secondary and/or primary forest exists in the north of the island.

Despite two years of field work carried out on Buton the avifauna is still comparatively little known and the species list for the island is by no-means complete - 35 species were added to the list during the 1996 Survey (3 species were only present on Siumpu and Snake Islands), including 5 endemics. Many of the Sulawesi endemics identified on the island are common

and widespread, with 20 species having been recorded from more than 50% of the squares surveyed during 1996. Of major conservation importance is the presence of 19 threatened or near-threatened species on the island, including two species classified as 'endangered' by Birdlife International and the International Union for the Conservation of Nature (IUCN).

A total of 56 squares have been surveyed out of a total of 85, plus the additional sites of Siumpu and Snake Islands which are situated to the south west of Buton. Of the 56 squares surveyed to date, 28 squares have had less than 8 hours of survey time spent on them, while a further 29 squares have never been surveyed. The latter include some of the most inaccessible areas on the island. The aim of the 1997 Survey will be to attempt to survey as many of the unknown squares as possible and to increase the survey times for those squares with minimal coverage. The main difficulty encountered during the previous two years has been accessibility with many areas, particularly in the north, being cut off due to washed away roads and bridges. Road improvements were in progress at the end of 1996 and it is hoped that this will help alleviate the problem. Due to problems with accessibility substantially more time was spent in some squares compared with others during 1996 (see Table 2). To some extent this has been exacerbated by the presence of permanent count sites in 6 of these squares. Permanent count sites were created in 1995 in order to provide data on important sites for conservation, and in order to encourage and promote awareness among local people. These sites also provide volunteers with an opportunity of viewing a wide range of birds.

#### Permanent Count Sites include:

1. Lake Togomotonu - Square 55.

2. Lowland forest near the Maleo breeding site at Maligano - Square 13.

3. Hill and lowland forest around La Bundo-Bundo - Squares 44 & 45.

4. Forest valley behind Bau-Bau used for training purposes by all groups - Square 66.

5. Cockatoo breeding site outside Bau-Bau - Square 65.

# 3.1: SUMMARY OF RESULTS BY SQUARE

Detailed summaries of all surveys carried out during 1996 (by square) can be found in Appendix 8 at the back of this report. An assessment of species diversity per square, is extremely difficult to make given the uneven coverage of squares during both 1995 and 1996. As a general rule the more time spent in a square the greater the recorded diversity of the avifauna, although the type and variety of habitats present also play a crucial role in species diversity. During 1996 six squares were identified as having a particularly diverse avifauna, with each square having 90 species or more recorded within its boundaries - Squares 13, 18, 44, 45, 49 and 55 (see Table 2). If the 1995 results are included then the number of squares with 90 species or more recorded increases to eight (additional squares include Squares 44 & 65). The presence of large tracts of forest appeared to be particularly important in explaining the distribution of Sulawesi endemics and 10 squares were found to have 30 or more Sulawesi endemics present. Not surprisingly all sites, with the exception of Lake Togomotonu, identified as having particular conservation importance are forest sites and it is hoped that most of these forests will be given protection by local officials. No results are available for Trip 9 (28/9/96 to 11/10/96), although interesting records have been included wherever relevant.

Square Number	Hours Spent	Species Recorded	Sulawesi	Indonesia
		In Each Square	Endemics	Endemic
1	1h	25	5	2
4	50m	25	7	2
5	22h40m	87	30	5
8	6h30m	50 [61]	15 [18]	1 [2]
13	62h20m	97 [115]	37 [38]	6
18	91h45m	126 [142]	38 [41]	7 [8]
19	24h10m	72 [78]	35	4
23	11h20m	70 [79]	27 [29]	4
24	1h05m	25	8	3
28	1h	24 [44]	4 [12]	3 [5]
33	3h	45 [58]	17 [20]	1 [2]
34	1 h25m	25 [53]	12 [23]	1 [3]
41	5h05m	63 [77]	29 [31]	4
43	4h	42	19	2
<u></u> 44	55h35m	90 [97]	36 [37]	7
45	28h40m	98 [128]	34 [37]	6 [9]
47	50m	14 [46]	7 [20]	1 [3]
48	1h	24	6	2
49	26h40m	113 [114]	30 [31]	6
50	14h45m	58	26	4
54	13h30m	81 [119]	28 [32]	5 [6]
55	42h50m	117 [128]	32	7
56	1 h45m	38 [65]	9 [16]	3 [4]
57	4h50m	42 [68]	13 [23]	5 [6]
<u>58</u>	1h55m	24	7	1
59	1 h45m	20	6	1
60	8h65m	59	23	4
62	4h15m	45 [63]	25 [30]	2
63	2h	48	18	3
65	25h50m	76 [99]	31 [34]	5 [8]
66	26h33m	83	34	4
67	6h30m	54 [69]	20 [27]	5
68	6h15m	64	22	4
69	1h30m	25	10	2
70	6h30m	38	88	4
72	6h40m	59	19	1
73	2h	18	4	11
74	14h	80	25	4
75	11h15m	58	21	3
76	11h05m	77 [80]	24	5 [6]
78	2h	35	8	2
79	3h20m	52	18	2
80	1 h45m	22	6	1
83	5h	43	18	2
SIUMPU ISLAND	11h25m	44 +1?	7	3
SNAKE ISLAND	6h45m	29	1	2

#### 3.2: COMMON SPECIES

Many species proved common, even abundant, and widespread, occupying a wide range of habitat types. As would be expected birds were more abundant in forested or wooded locations especially in areas where forest bordered other mixed habitats. Squares with a wide range of habitat types, both natural and modified, also contained a diverse avifauna - Square 18 being a case in point (141 species recorded during 2 years of field work). Of the 25 most widely distributed species (species occurring in 70% or more of Squares surveyed in 1996), 16 occur widely in adjacent parts of Indonesia and South East Asia, while only 9 are endemic to Sulawesi (Table 3). All species frequented a wide range of habitats including in some cases heavily degraded or modified habitats. It is interesting to note that with the exception of the ubiquitous Sulawesi Babbler, all the Sulawesi endemics appear to be dependant on forested or wooded habitats, including forest patches.

Common Name	Systematic Name	*
Collared Kingfisher	Halcyon chloris	98%
Black-naped Oriole	Oriolus chinensis	93%
Black Sunbird	Nectarinia aspasia	91%
Grey-rumped Tree-Swift	Hemiprocne longipennis	86%
White-breasted Woodswallow	Artamus leucorhynchus	86%
Brown-throated Sunbird	Anthreptes malacensis	84%
Olive-backed Sunbird	Nectarinia jugularis	84%
Lemon-bellied White-eye	Zosterops chloris	82%
Black-naped Fruit-Dove	Ptilinopus melanospila	80%
Sulawesi Hanging-Parrot	Loriculus stigmatus	80%
Bay Coucal	Centropus celebensis	80%
White-rumped Cuckoo-Shrike	Coracina leucopygia	80%
Black-naped Monarch	Hypothymis azurea	80%
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	77%
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	77%
Grey-sided Flowerpecker	Dicaeum celebicum	76%
Lesser Coucal	Centropus bangalensis	75%
Hair-crested Drongo	Dicurus hottentottus	75%
White-necked Myna	Streptocitta albicollis	75%
White-beilied Swiftlet	Collocalia esculenta	73%
Sulawesi Babbler	Trichastoma celebense	73%
Slender-billed Cuckoo-Dove	Macropygia amboinensis	70%
Grey-cheeked Green Pigeon	Treron griseicauda	70%
Uniform Swiftlet	Aerodramus vanikorensis	70%
Pale-beilied White-eye	Zosterops consobrinorum	70%

#### 3.3: NON-FOREST HABITATS

Climax vegetation on Buton is tropical forest, and as would be expected this is the single most important habitat on the island. Deforestation in recent years has greatly reduced the amount of forest habitat available and this habitat will continue to shrink or even disappear in many areas over the next few years. A variety of new ecological niches have become available with the clearance and alteration of forest environments, but many of these have not been fully utilised by resident species. A range of new habitats have been created including; grasslands, scrubby savanna, cultivation (including paddi rice), plantations (mainly cashew nut and coconut), plus degraded forest patches. Many areas of Buton, especially in the south, have been cleared repeatedly over a long period of time, resulting in the development of dry scrubby savanna dominated by alang alang grass (*Imperata* species), Lantana camara and other introduced shrubby species. Large areas of southern Buton are now covered in dense impenetrable thickets.

Common Name	Systematic Name	
Brahminy Kite	Haliastur indus	
Spotted Kestrel	Falco moluccensis	
Spotted Dove	Streptopelia chinensis	
Slender-billed Cuckoo-Dove	Macropygia amboinensis	*
Green-winged Pigeon	Chalcophaps indica	
Black-naped Fruit-Dove	Ptlinopus melanospila	
White Imperial Pigeon	Ducula luctuosa	*
Sulawesi Hanging-Parrot	Loriculus stigmatus	•
Plaintive Cuckoo	Cuculus merulinus	
Lesser Coucal	Centropus bengalensis	
Bay Coucal	Centropus celebensis	*
Grey-rumped Treeswift	Hemiprocne longipennis	
Collared Kingfisher	Halcyon chloris	
Rainbow Bee-eater	Merops ornatus	
White-rumped Cuckoo-Shrike	Coracina leucopygia	*
White-winged Triller	Lalage suerii	
Black-naped Oriole	Oriolus chinensis	
Slender-billed Crow	Corvus enca	
Sulawesi Babbler	Trichastoma celebense	
Pied Bushchat	Saxicola caprata	
Zitting Cisticola	Cisticola juncidis	
Golden-headed Cisticola	Cisticola exilis	
Black-naped Monarch	Hypothymis azurea	
White-breasted Woodswallow	Artamus leucorhynchus	
Brown-throated Sunbird	Anthreptes malacensis	
Black Sunbird	Nectarinia aspasia	
Olive-backed Sunbird	Nectarinia jugularis	
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	*
Grey-sided Flowerpecker	Dicaeum celebicum	
emon-bellied White-eye	Zosterops chloris	

The avifauna of these modified 'non-forest' habitats is highly impoverished, although a few species are largely dependent on these habitat types. Some 30 species are regularly seen in degraded habitats on Buton, the vast majority of which are commonly found throughout Indonesia and South East Asia (Table 4). Of particular interest is the absence of most Sulawesi endemics, with the exception of the Sulawesi Babbler, from these habitats. Most other Sulawesi endemics found in open habitats are usually associated with remaining patches of forest, or have entered the environment in order to utilise a readily available source of food. Many of the species found in open habitats are surprisingly localised and even uncommon, despite the abundance of suitable habitat - this is true of the Spotted Kestrel, Pied Bushchat and both Cisticolas. This seems to suggest that many species have not had the opportunity to colonise these open habitats, although this will undoubtedly change with time.

The cultivation of rice in irrigated fields on Buton has had a significant impact on waterbirds and waders on the island. Natural freshwater habitats are extremely scarce on Buton, although seasonally flooded areas were previously fairly extensive, prior to the development of transmigration settlements, around the small lakes of Togomotonu and Ambuau, near Lasalimu. The introduction of irrigation schemes and paddi rice cultivation to Buton has resulted in a dramatic increase in the availability of freshwater habitats on the island, although waterbirds seem to have been relatively slow in colonising these habitats. Comparatively few waterbirds were noted during the 1995 Survey away from the vicinity of the two lakes. During 1996 a number of waterbirds were recorded from irrigated rice fields, and it seems likely that numbers will continue to increase. Species regularly noted include Intermediate Egrets Egreta intermedia, Little Egrets E. garzetta, Woolly-necked Storks Ciconia episcopus, Sunda Teal Anas gibberifrons, Buff-banded Rail Gallirallus philippensis, Barred Rail G. torquatus and White-browed Crake Porzana cinerea. Two species, Cinnamon Bittern Ixobrychus cinnamomeus and Javan Pond-Heron Ardeola speciosa, proved to be unexpectedly uncommon in irrigated paddi fields. The latter is abundant on mainland Sulawesi around Kendari, but only small numbers have been encountered to date. Large numbers of migrant waders were attracted to unplanted rice fields between August and November, and these habitats may become important for them in the future. Small seedeating finches have benefited greatly from the introduction of wet rice cultivation and Chestnut Munias Lonchura malacca are now locally abundant. Important irrigation schemes exist in Squares 45, 49, 55 and 57, and further schemes are under construction. Waterbirds and waders have also adapted readily to the construction of fish ponds around the coast.

The two lakes, unfortunately, have not fared well in recent years due to encroachment of agriculture, and in the case of Lake Ambuau the building of a substantial irrigation ditch. The latter site will probably not survive, but Lake Togomotonu remains an important site for many species. A programme has been agreed with local officials to improve the conservation of Lake Togomotonu and its environs, and it is hoped that this will be sufficient to protect and develop this important Buton site.

Common Name	Systematic Name	i	Muna#	Buton#	1995	19
:						
Little/Red-throated Grebe	Tachybaptus ruficollis				√26	_ 3
2 Christmas Island Frigatebird	Fregata andrewsi					
3 Great Frigatebird	Fregata minor		<u> </u>		>15	
Lesser Frigatebird	Fregata ariel				>10	6
5 Little Black Cormorant	Phalacrocorax sulcirostris				2	>
5 Little Pied Cormorant	Phalacrocorax melanoleucos				>10	>
7 Oriental Darter	Anhinga melanogaster				1	
Brown Booby	Sula leucogaster				>10	
Great-billed Heron	Ardea sumatrana		٠		1	3
Purple Heron	Ardea purpurea				3	2
White-faced Heron	Ardea novaehollandiae					1
Great Egret	Egretta alba		4		7	2
Intermediate Egret	Egretta intermedia				1	3
Little Egret	Egretta garzetta nigripes				1	15
Pacific Reef-Egret	Egretta sacra		*	*	1	5
Cattle Egret	Bubulcus ibis			*	5	
Javan Pond-Heron	Ardeola speciosa		*	*	1 >10	>2
Striated Heron	Butorides striatus				2	5
Cinnamon Bittern  Black Bittern	Ixobrychus cinnamomeus Ixobrychus flavicollis	<del></del>			1	1
Woolly-necked Stork	Ciconia episcopus		•	*	17	7
Milky Stork	Mycteria cinerea					2
3 Osprey	Pandion haliaetus	<del>-</del>	•	*	2	3
Jerdon's Baza	Aviceda jerdoni				1	2
Barred Honey-Buzzard	Pernis celebensis		*		4	1
Black-shouldered Kite	Elanus caeruleus		*		2	2
' Brahminy Kite	Haliastur indus		+	*	3	9
White-bellied Sea-Eagle	Haliaeetus leucogaster		*	*	2	3
Lesser Fish-Eagle	lchthyophaga humilis	ļ			3	2
Grey-headed Fish-Eagle	lchthyophaga ichthyaetus		•		2	1
Sulawesi Serpent-Eagle	Spilornis rufipectus	S		<del></del>	3	6
Spotted Harrier	Circus assimilis	SS				1 1
B. Eastern Marsh Harrier	Circus spilonotus	s	****	*		1
Sulawesi Goshawk	Accipiter griseiceps Accipiter soloensis	<u>                                    </u>		*	1	!
Chinese Goshawk Spot-tailed Goshawk	Accipiter solvensis Accipiter trinotatus	s	*	*		3
Small Sparrowhawk	Accipiter trinotatus Accipiter nanus	S			?	2
Vinous-breasted Sparrowhawk	Accipiter rhodogaster	s	*	*	?	3
Grey-faced Buzzard	Butastur indicus				2	
Black Eagle	ictinaetus malayensis				1	3
Rufous-bellied Eagle	Hieraaetus kienerii					1
Sulawesi Hawk-Eagle	Spizaetus lanceolatus	s	*	+	4	1
Spotted Kestrel	Falco moluccensis		*	*	2	5
Oriental Hobby	Falco severus				1	1
Peregrine Falcon	Falco peregrinus				1	1
Spotted Whistling-Duck	Dendrocygna guttata				>40	35
Wandering Whistling-Duck	Dendrocygna arcuata				>50 >50	11
Sunda Teal	Anas gibberifrons Anas superciliosa				>50	<u>14</u> 4
Pacific Black Duck	Anas superciliosa  Megapodius cumingii		L			1
Tabon Scrubfowl Maleo	Macrocephalon maleo	s			6	26
Maleo Blue-breasted Quail	Coturnix chinensis	-   -	• [		<u> </u>	
Red Junglefowl	Gallus gallus		<del></del>	*	3	3
Red-backed Buttonquail	Turnix maculosa		*		1	4
Buff-banded Rail	Gallirallus philippensis			•	5	15
Barred Rail	Galliralius torquatus		•		10?	8
Slaty-breasted Rail	Gallirallus striatus				2	1
Snoring Rail	Aramidopsis plateni	s	I		4	2
Isabelline Waterhen	Amaurornis isabellinus	S			4	2
White-breasted Waterhen	Amaurornis pheonicurus		*?	•	6	7
Baillon's Crake	Porzana pusilla	1 1	1		2	2

Table 5: Checklist of Species Reco								
Common Name	Systematic Name		Muna#	Buton#	1995	1996		
63 White-browed Crake	Porzana cinerea			alan da	.>10	6		
64 Purple Swamphen	Porphyrio porphyrio		1			4		
& Common Morhen	Gallinula chloropus				>10	27		
66 Dusky Moorhen	Gallinula tenebrosa				26	25		
67 Comb-crested Jacana	Irediparra gallinacea				>20	16		
68 Pacific Golden Plover	Pluvialis fulva		*	*	8	21		
69 Grey Plover	Pluvialis squatarola			<del></del>		2		
70 Greater Sand-Plover	Charadrius leschenaultii		•	**************************************				
71 Lesser Sand-Plover	Charadrius mongolus		ļ	*		1_		
72 Oriental Plover	Charadrius veredus		ļ					
73 Little-ringed Plover 74 Malaysian Plover	Charadrius dubius Charadrius peronii		1			5		
75 Ruddy Turnstone	Arenaria interpres					1		
76 Great Knot	Calidris tenuirostris				4	!_		
77 Sharp-tailed Sandpiper	Calidris acuminata				2			
78 Rufous-necked Stint	Calidris ruficollis				>30	3		
79 Curlew Sandpiper	Calidris ferruginea					2		
80 Dunlin	Calidris alpina					1		
81 Red-necked Phalarope	Phalaropus lobatus					31		
82 Common Redshank	Tringa totanus				>30	>40		
83 Common Greenshank	Tringa nebularia			*	2	5		
84 Nordmann's Greenshank	Tringa guttifer					1		
85 Marsh Sandpiper	Tringa stagnatilis				3	2		
86 Green Sandpiper	Tringa ochropus				1			
87 Wood Sandpiper	Tringa glareola			*	5	49		
88 Grey-tailed Tattler	Heteroscelus brevipes		*		1	7		
89 Common Sandpiper	Actitis hypoleucos			*	>20	8		
90 Whimbrel	Numenius phaeopus		*	*	>20	28		
91 Bristle-thighed Curlew	Numenius tahitiensis					1		
92 Far Eastern Curlew	Numenius madagascariensis				2	-		
93 Swinhoe's Snipe	Gallinago megala				_1_	1		
94 Beach Thick-Knee	Esacus magnirostris	ss				1		
95 Oriental Pratincole	Glareola maldivarum			*		5_		
96 Long-legged Pratincole	Stiltia isabella				3			
97 Whiskered Tern	Chlidonias hybridus							
98 White-winged Tern 99 Gull-billed Tern	Chiidonias leucopterus Gelochelidon nilotica					<u>1</u>		
00 Common Tern	Sterna hirundo			<del></del>	5	7		
01 Black-naped Tern	Sterna hirdingo Sterna sumatrana				>10	1		
O2 Bridled Tern	Sterna anaethetus							
03 Little Tern	Sterna albifrons		<del></del>		2			
04 Great Crested Tern	Sterna abin ona				- <u>*</u>	32		
C5 Lesser Crested Term	Sterna bengalensis					4		
06 Fairy Tem	Gygis alba					1		
07 Feral Pigeon	Columba livia				8	- <del>,</del> -8		
O8 Spotted Dove	Streptopelia chinensis		* !	*	30	11		
09 Slender-billed Cuckoo-Dove	Macropygia amboinensis			*	12	15		
10 White-faced Cuckoo-Dove	Turacoena manadensis	s	*	*	11	11		
11 Green-winged Pigeon	Chalcophaps indica		•	*	3	3		
12 Stephan's Pigeon	Chalcophaps stephani	j			3	3 2		
13 Zebra Dove	Geopelia striata	SS	į			2		
14 Pink-necked Green Pigeon	Treron vernans				23	11		
15 Grey-cheeked Green Pigeon	Treron griseicauda		*	*	>20	>57		
16 Maroon-chinned Fruit-Dove	Ptlinopus subgularis	s			4	1		
17 Black-naped Fruit-Dove	Ptlinopus melanospila		*	*	17	>51		
18 White-bellied Imperial Pigeon	Ducula forsteni	S			8	>30		
19 Grey-headed Imperial Pigeon	Ducula radiata	S			>3	5		
20 Green Imperial Pigeon	Ducula aenea		*	*	9	6		
21 Blue-tailed Imperial Pigeon	Ducula concinna	_			5			
22 Pink-headed Imperial Pigeon	Ducula rosacea		<u> </u>		39	>27		
23 Pied Imperial Pigeon	Ducula bicolor				49?	3		
24 White Imperial Pigeon	Ducula luctuosa	S			>50	>79		
25 Yellow-crested Cockatoo	Cacatua sulphurea			. •	9	9		

						4005	1996
	Common Name	Systematic Name		Muna#	Buton#	1995	199
26	Ornate Lorikeet	Trichoglossus ornatus	s		*	. 20	27
	Yellow-and-Green Lorikeet	Trichoglossus flavoviridis	s			2	1
	Sulawesi Hanging-Parrot	Loriculus stigmatus	s	•	*	10	>2
	Green Hanging-Parrot	Loriculus exilis	S			19	>3
	Golden-mantled Racket-tailed Parrot	Prioniturus platurus	S	•	•	40	>1
	Great-billed Parrot	Tanygnathus megalorynchos				17	2
	Blue-backed (Muller's) Parrot	Tanygnathus sumatranus		•	*	6	18
	Sulawesi Hawk-Cuckoo	Cuculus crassirostris	S			1	1
	Oriental Cuckoo	Cuculus saturatus		*		1	1
	Plaintive Cuckoo	Cacomantis merulinus				2	4
	Indonesian Cuckoo	Cacomantis sepulcralis	11		*	1	4
n	Horsefield's Bronze-Cuckoo	Chrysococcyx basalis				1	
	Gould's Bronze-Cuckoo	Chrysococcyx russatus				3	2
*******	Drango Cuckoo	Surniculus lugubris			*	2	2 5
	Black-billed Koel	Eudynamys melanorhyncha	s	*		6	5
	Channel-billed Cuckoo	Scythrops novaehollandiae		•	•	2	3
	Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	s	•		9	39
	Lesser Coucal	Centropus bengalensis		•	*	5	10
	Bay Coucal	Centropus celebensis	s	*	•	15	12
	Sulawesi Owl	Tyto rosenbergii	s			1	1
	Sulawesi Scops-Owl	Otus manadensis	s		VT-10-10-10-10-10-10-10-10-10-10-10-10-10-	2	>,
	Speckled Hawk-Owl	Ninox punctulata	s				1
	Ochre-beilied Hawk-Owl	Ninox ochracea	S		*		2
	Satanic Nightjar	Eurostopodus diabolicus	S				4
	Great-eared Nightjar	Eurostopodus macrotis		· · · · · · · · · · · · · · · · · · ·		9	12
	Long-tailed Nightjar	Caprimulgus macrurus		i			1
	Savanna Nightjar	Caprimulgus affinis				5	, >;
	Grey-rumped Tree-Swift	Hemiprocne longipennis		j	*	>50	<u>-</u>
	White-bellied Swiftlet	Collocalia esculenta				>100	>18
	Moluccan Swiftlet	Aerodramus infuscatus				50	
	Uniform Swiftlet	Aerodramus vanikorensis		*		>50	>1
	White-throated Needletail	Hirundapus caudacutus					<u></u> \
		Hirundapus celebensis				20	<del>i</del>
	Purple Needletail	Apus pacificus		<del></del>		1	<u>-</u>
	Fork-tailed (Pacific) Swift House Swift	Apus [affinis] nipalensis					<u>:</u> >2
	and the same of th	Cypsiurus balasiensis				>50	21
	Asian Palm Swift	Actenoides monachus	s			-200	1
	Blue-headed Wood Kingfisher	Halcyon coromanda	-   3	+ -	*	1	2
	Ruddy Kingfisher		s	• [	•	4	<u>_</u> 3
	Great-billed Kingfisher	Halcyon melanorhyncha	->-			32	 14
	Collared Kingfisher	Halcyon chloris			*	5	- <u> -</u>  -
	Sacred Kingfisher	Halcyon sancta					
	Sulawesi Pygmy Kingfisher	Ceyx fallax	S				1
	Blue-eared Kingfisher	Alcedo meninting				1	<u>1</u> 3
	Common Kingfisher	Alcedo atthis				3	
	Rainbow Bee-eater	Merops ornatus			*	23	>36
	Purple-winged Roller	Coracias temminckii	S		*	14	6
	Broad-billed Roller (Dollarbird)	Eurystomus orientalis			*	3	7
	Sulawesi Hornbill	Penelopides exarhatus	S			13	15
	Red-knobbed Hombill	Rhyticeros cassidix	S	*	*	22	23
	Sulawesi Pygmy Woodpecker	Picoides temminckii	S			_1_	3
	Ashy Woodpecker	Mulleripicus fulvus	S	*	*	7	12
	Red-beilied Pitta	Pitta erythrogaster				5	6
***	Hooded Pitta	Pitta sordida	??				2
	Barn Swallow	Hirundo rustica				2	4
O	Pacific Swallow	Hirundo tahitica		•	*	>20	>5
1	Pied Cuckoo-Shrike	Coracina bicolor	S		* ]	8	6
	White-rumped Cuckoo-Shrike	Coracina leucopygia	S		*	14	14
	Common Cicadabird	Coracina tenuirostris				4	5
	Sulawesi Cicadabird	Coracina morio	S	•		10	9
	Sulawesi Pied Triller	Lalage (nigra) leucopygialis	S	*		6	5
	White-winged Triller	Lalage sueurii			•	4	7
	Sooty-headed Bulbul	Pycnonotus aurigaster			····	1	
						1	

Common Name	Systematic Name	<del>-</del>	Muna#	Buton#	1995	19
Common Marie	Systematic Manne		Muna#	Buton#	1990	13
189 Hair-crested Drongo	Dicrurus hottentottus		-	<del></del>	15	- 
90 Black-naped Oriole	Oriolus chinensis		•	*	19	1
91 Slender-billed Crow	Corvus enca		<del> </del>	*	30	
192 Piping Crow	Corvus typicus	s		*	6	+-
93 Sulawesi Babbler	Trichastoma celebense	s		*	17	2
94 Pied Bushchat	Saxicola caprata		<del> </del> -	*	19	
95 Red-backed Thrush	Zoothera erythronota	s	<del> </del>	····	3	
96 Golden-beilied Gerygone	Gerygone sulphurea				2	1
97 Tawny Grass-Warbler	Megalurus timoriensis				1	<del> </del> -
98 Clamorous Reed-Warbler	Acrocephalus stentoreus				<del>1</del>	
99 Zitting Cisticola	Cisticola juncidis				12	1
00 Golden-headed Cisticola	Cisticola exilis			····	2	
01 Asian Brown Flycatcher	Muscicapa latirostris				2	-
02 Grey-streaked Flycatcher	Muscicapa griseisticta				2	-
03 Black-naped Monarch	Hypothymis azurea puella			*	11	1
04 Citrine Flycatcher	Culicicapa helianthea				9	1
05 Rusty-bellied Fantail	Rhipidura teysmanni	s			9	
06 Mangrove Whistler	Pachycephala grisola	-   3				
07 Common Pipit	Anthus novaeseelandiae					
08 Petchora Pipit	Anthus gustavi				1	<u> </u>
09 Yellow Wagtail	Motacilla flava				39	
10 Grey Wagtail	Motacilla cinerea					
11 White-breasted Woodswallow	Artamus leucorhynchus				12	2
12 Ivory-backed Woodswallow	Artamus monachus				50	
13 Tiger Shrike	Lanius tigrinus	S ??			17	1
14 Brown Shrike	Lanius cristatus					2
15 Short-tailed Glossy Starling	Aplonis minor				1	
16 Asian Glossy Starling	Apionis panayensis				. 000	19
17 Sulawesi Crested Myna	Basilomis celebensis				>30?	>5
8 White-necked Myna	Streptocitta albicollis	<u>  S  </u>	*		7	1
9 Finch-billed Myna	Scissirostrum dubium	S			>10	26
20 Brown-throated Sunbird	Anthreptes malacensis	S			>200	>2
21 Black Sunbird					8	19
2 Olive-backed Sunbird	Nectarinia aspasia				25	12
3 Crimson Sunbird	Nectarinia jugularis				>30	>4
24 Yellow-sided Flowerpecker	Aethopyga siparaja				12	8
5 Crimson-crowned Flowerpecker	Dicaeum aureolimbatum	<u>s</u>		•	20	2.
6 Grey-sided Flowerpecker	Dicaeum nehrkorni Dicaeum celebicum	S				1
7 Lemon-bellied White-Eye		S	*		22	20
8 Pale-bellied White-Eye	Zosterops chloris				>30	>3
9 Eurasian Tree Sparrow	Zosterops consobrinorum	s			20	18
O Black-faced Munia	Passer montanus					2
	Lonchura molucca				108	>20
Scaly-breasted Munia     Chestnut Munia	Lonchura punctulata				30	
3 Pale-headed Munia	Lonchura malacca		*	*	100	>14
O L dia-Hadrian Mintila	Lonchura pallida				50	>6
Total Number of Cassies Beauty						
Total Number of Species Recorded			70	78	187	210
S = Sulawesi Endemic					<u> </u>	
= Indonesian Endemic						
?? = Unconfirmed Record						
SS = Siumpu & Snake Islands Only						
Figures for 1995 & 1996 Represent Maximum Survey Counts						
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# 4: THREATENED AND NEAR-THREATENED SPECIES

A total of 19 threatened and near-threatened species have been recorded from Buton, including two species classified by IUCN (see Appendix 2) as endangered. For an island as small as Buton this represents a very significant total, and Buton could prove to be important for the conservation of some of these species. With the exception of 4 migrant and/or vagrant species (Asian Darter, Nordmann's Greenshank, Bristle-thighed Curlew and Far-Eastern Curlew), all threatened and near-threatened species are thought to be resident. Many of the Sulawesi endemics included within this group are very poorly known, and their status may change when data becomes more readily available.

	Custometic Name	Category
Common Name	Systematic Name	Category
Nordmann's Greenshank	Tringa guttifer	Endangered
Yellow-crested Cockatoo	Cacatua sulphura	Endangered
Milky Stork	Mycteria cinerea	Vulnerable
Maleo	Macrocephalon maleo	Vuinerable
Snoring Rail	Aramidopsis plateni	Vulnerable
Bristle-thighed Curlew **	Numenius tahitiensis	Vuinerable
Satanic Nightjar *	Eurostopodus diabolicus	Vulnerable
04(4130 11313)		<u> </u>
Asian Darter	Anhinga melanogaster	N-T
Great-billed Heron	Ardea sumatrana	N-T
Jerdon's Baza	Aviceda jerdoni	N-T
Lesser Fishing-Eagle	Ichthyophaga humilis	N-T
Grey-headed Fishing-Eagle	Ichthyophaga ichthyaetus	N-T
Small Sparrowhawk	Accipiter nanus	N-T
Sulawesi Hawk-Eagle	Spizaetus lanceolatus	N-T
Tabon Scrubfowl	Megapodius cumingii	N-T
Malaysian Plover	Charadrius peronii	N-T
Far Eastern Curlew	Numenius madagascariensis	N-T
Pied Cuckoo-Shrike	Coracina bicolor	N-T
Red-backed Thrush	Zoothera erythonota	N-T
Pale-bellied White-eye	Zosterops consobrinorum	N-T
* - probable record		
** - unconfirmed record		

A number of factors are adversely affecting the status of many of the threatened or near-threatened species on Buton. In recent years large scale transmigration settlements have been established in the south and east of the island which has resulted in widespread forest destruction. Little importance is often placed on protected areas of forest and a number of transmigration sites have been established in existing forest reserves - the settlement near Lake Togomotonu is a case in point. The huge transmigration settlements in the NE of the island around Ronta have been especially devastating with large areas of old secondary and/or primary forest being clear-felled. Little work seems to be done to determine whether the sites are suitable for agriculture, and many areas have exceptionally poor soils which are often completely dominated by large coral outcrops and crevices. At the present rate of destruction it is doubtful whether much forest will survive, except on the higher and steeper slopes. Methods of timber extraction for local consumption are extremely wasteful and little effort is made to regulate this activity.

The trapping of birds for pets by local people is a major problem on the island, and the population of one parrot species has already declined dramatically. Parrots are the most commonly captured birds, but white-eyes, imperial pigeons and even rails have been observed in captivity. Hunting of birds for food is not currently widespread on Buton, although there are signs that this is changing due to the arrival of transmigrants from Java and elsewhere. Snares are regularly set for Bear Cuscus *Phalanger ursinus* and the local form of the Booted Macaque *Macaca ochreata brunnescens*, and birds are occasionally caught; species found dead in snares include Red-Knobbed Hornbills, Fiery-billed Malkoha and Bay Coucal. At present the only species which seems to be suffering from hunting and the collection of eggs is the Maleo.

#### 4.1: THREATENED SPECIES

#### **ENDANGERED SPECIES**

NORDMANN'S GREENSHANK Tringa guttifer

The total world population of this waders is thought to number c.1000, all of which breed in eastern Russia and winter in SE Asia. Not previously recorded from Wallacea, although there is a record from N Borneo, and up to 21 birds have been seen in SE Sumatra (Collar et al., 1994). Two birds were recorded from Buton during 1996; a single bird seen in fish ponds at Karing Karing on the 22/10/96 (poor photograph taken); a second bird was seen well on a beach in Square 74 on the 5/11/96. A least one, possibly three, Nordmann's Greenshanks were also recorded from fish ponds at Kendari on the 9/11/96. The number of records may indicate that the species winters more regularly in SE Sulawesi.

YELLOW-CRESTED COCKATOO Cacatua sulphura

According to a recently completed status assessment by Birdlife International and the Indonesian Department of Nature Conservation (PHPA), populations of the Yellow-crested Cockatoo have crashed since the 1970s (Poole, 1996). The subspecies *sulphura* is known to have vanished from many parts of Sulawesi and the largest known population, in the Rawa Aopa Watumohai National Park, numbers only c.150 birds.

C. s. sulphura is an uncommon and evidently localised species on Buton, which appears to occur predominantly in the south of the island. Associated with forest, including degraded forest, where it is encountered in pairs and small groups of up to 9 birds. A total of 34 birds were recorded in 1996 from 9 squares, all in the south of the island; in 1995 19 birds were recorded from 4 squares, including the only northern record - 5 birds seen near Maligano. Fairly large areas of Buton have still to be surveyed, including extensive areas of lowland forest, and more birds may yet be found. The total Buton population of this species is probably between 50-100 birds, but numbers are decreasing due to trapping and the species is under enormous pressure. Cockatoos are still widely trapped for the pet trade despite being fully protected by Indonesian law. During a visit in November by volunteers to the only known breeding site, just outside of Bau-Bau, 2 birds were shot and injured by local trappers; both birds are now in captivity at the local police station. A number of captive cockatoos were seen throughout the island, all trapped locally. This species is readily available in the bird markets at Kendari, where birds are offered for US\$50.00.

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#### **VULNERABLE SPECIES**

#### MILKY STORK Mycteria cinerea

Recent studies have indicated a world population of less than c.6000 birds with the bulk of the population breeding in Indonesia; c.5000 birds occur on Sumatra (Collar, 1994). Only recently found in south Sulawesi where a small resident population is thought to occur; small numbers occur in S Sulawesi and a larger population occurs in SE Sulawesi including c.100 birds from Rawa Aopa Watumohai National Park (Wardill, 1995). Breeding has not yet been proved from Sulawesi, although there are reports of immature birds from various locations. Milky Storks are especially associated with coastal mangrove swamps, but also utilise other aquatic habitats, including fish ponds, lakes, marshes, tidal flats, saline pools and are occasionally known to visit rice fields (Hancock, 1992).

Not previously recorded from Buton, but known to occur in the mangroves between mainland Sulawesi and Muna (Wardill, 1995). Records from Buton include a single bird at Lake Ambuau, 2/11/96; 21 birds in a large isolated mangrove tree in Square 78, 5/11/96; & 4 adults and an immature in Square 74, 17/11/96. A sighting, at distance, of a very large all white bird in mangroves in Square 8 on the 25/6/96 was probably this species. Urgent surveys are needed to determine the status of this stork on Buton and to establish whether the species breeds locally. The record of an immature from Buton may indicate that the species breeds locally, although birds are known to disperse widely after breeding.

#### MALEO Macrocephalon maleo

The Maleo is endemic to Sulawesi where it inhabits lowland and hill forest to 1,200m. The remaining population is still thought to be quite large, but the species is vulnerable as it lays communally in traditional nesting grounds (Collar, 1994). Only 85 nesting grounds are known, but 22 have already been abandoned and others are under severe threat. On Buton, Maleo have only been recorded from 2 squares in the north of the island near Maligano, and 5 breeding sites have been found along a 1.5 km stretch of river north of Maligano. The sites are currently surrounded by mature secondary forest, which at the end of the 1996 Survey was being selectively logged. A transmigration site has been established within 0.5 km of the Maleo sites and the logging of large trees is well underway. All breeding sites suffer from severe disturbance with trees being cut within metres of some sites; the river itself is used for transporting cut timber and loggers are known to collect eggs. Only one breeding site is regularly used with a maximum count of 26 Maleos made in late October. The nest grounds are found along a small stretch of river with thick black deposits of river sand; further upstream the banks become rocky and are thus unsuitable for nesting. No other rivers appear to be suitable on Buton. The Maleo breeding sites must be regarded as severely threatened and immediate action must be taken to eliminate disturbance and protect the surrounding forest. The Governor of SE Sulawesi has expressed an interest in the Maleo sites on Buton, and has asked officials to take action.

#### SNORING RAIL Aramidopsis plateni

According to Collar (1992) the Snoring Rail appears to be genuinely rare and may be vulnerable to deforestation, although its elusive habits may account to some extent for the paucity of records. This flightless rail is known from only 11 specimens and 4 sightings made between 1983 and 1992 (del Hoyo, 1996).

A rare and localised rail which is more readily heard than seen. Two birds were observed in an area of swampy thicket close to a main road and an area of lowland forest. Other birds recorded during the 1996 Survey frequented areas of wet lowland forest with dense understories of rattans. Also heard in thick secondary growth and adjacent thick growth of grasses and bushes. Generally encountered, or heard, singly or in pairs. Voice is a distinctive rather quite call *ee-orrrr*, lasting 1-2 seconds - a very brief wheeze followed by a longer snoring noise, also brief, quiet, deep sigh *hmmmm* (de Hoyo, 1996). Thought to eat crabs and lizards caught along forest streams. Some of the earlier records of this species are extremely questionable, in particular reports of large groups made during 1995; these records almost certainly refer to the widespread Buff-banded Rail *Gallirallus philippensis*.

#### BRISTLE-THIGHED CURLEW Numenius tahitiensis

A description of a single bird recorded on the 7/11/96 at Wakalambe fish ponds seems to fit this species. A second bird, also fitting the description of this curlew, was recorded in Kendari the following day. If confirmed these records would represent a dramatic extension to the recorded range of this species; previously known to winter only in the islands of the central Pacific, as far west as Micronesia. These records will undoubtedly represent vagrants, although it is possible that small numbers of this species occur more regularly in the region.

#### SATANIC NIGHTJAR Eurostopodus diabolicus

Until recently this nightjar was only definitely known from the type specimen, collected at 250 m in forest on the Minahassa peninsula, although a number of unidentified calls heard elsewhere on Sulawesi have been attributed to this species (White & Bruce, 1986). The Satanic Nightiar was rediscovered in May 1996 when 4 birds were seen at two sites in the Lore Lindu National Park in C Sulawesi (N. Cleere in litt. 1996). A description provided by Cleere is as follows: length c.25 cm, wing length 202 mm; there is a small white spot on the third and fourth outer primaries, situated approximately half way along the outer wing; the male has a prominent white marking around the throat, buffish in the female. A number of unidentified nightiars, most probably this species, have been observed at altitudes of between c250-c.280 m in secondary forest in the hills above Maligano. All birds observed flew off into the understory of the forest when disturbed. Tape recordings of this species were obtained, but birds did not respond well to play backs of their calls and were thus not caught in mist-nets. A bird was observed calling from the upper branches of a large tree adjacent to the forest road, the call resembles tock-tock. In 1995 a call similar to this was heard in Square 45. A bird observed on the 3/7/96 at close quarters during the middle of the day was dark chocolate brown above with little or no apparent markings. The tail in particular appeared unmarked. At the base of the primary feathers was a small conspicuous white spot. The nightjar was fairly small in size, measuring c.20 cm. The bird had been flushed from its roost in a small clearing caused by a fallen tree, alongside a forest road.

#### 4.2: NEAR-THREATENED SPECIES

ASIAN DARTER Anhinga melanogaster

Only recorded during the 1995 survey when 1 bird was sighted. Little suitable habitat exists on Buton for this species and the record probably represents a vagrant from the swamps around Aopa in SE Sulawesi, where this species is reasonably common (Wardill, 1995).

#### GREAT-BILLED HERON Ardea sumatrana

An uncommon and localised species which is restricted to less disturbed stretches of coast. During 1996 this huge heron was only recorded from 4 squares (plus two further squares in the north) with a maximum count of 3 birds. This species was also recorded from Snake Island SW of Buton. During a boat trip between Maligano and Labuana in June 1996, only 6 birds were recorded, suggesting that this species is uncommon even along relatively undisturbed stretches of coast. On Hoga Island in the Tukangbesi individual birds were repeatedly seen catching Sea Crakes of the genus *Laticauda*. The sea snake was caught in the tip of the bill and then carried away from the pools of water onto dry ground before being shaken vigorously. On a couple of occasions the snake was washed repeatedly in a pool before being swallowed.

JERDON'S BAZA Aviceda jerdoni

A very uncommon and elusive raptor, which was recorded from only 4 squares during 1996. Generally encountered in pairs along the forest edge or in forest clearings, usually during the early morning. Some confusion exists as to the taxonomic status of the birds on Buton Island as a description of a pair observed for some 20 minutes in August 1996 does not agree with any of the literature available. It is possible that the birds on Buton represent a distinct and previously undescribed race of this species (see Chapter 10 for a full description). During the 1995 Survey this species was found to be fairly widespread and it is possible that birds were overlooked during the 1996 Survey. However, this species is probably uncommon throughout Buton and further studies are needed to establish its status.

LESSER FISHING-EAGLE Ichthyophaga humilis

Recorded from 6, widely distributed, squares during the 1996 Survey. All records were from forested rivers and streams, except for the pair around the two lakes. The latter pair were frequently encountered (generally singly) fishing over Lake Togomotonu, and were found to be nesting in a huge isolated tree next to nearby Lake Ambuau in November. The latter site is under enormous pressure from encroaching agriculture and a newly built irrigation ditch, and it is doubtful whether this site will survive. Probably fairly widespread along remaining suitable forested rivers, although lowland habitats are disappearing rapidly due to clearance for agriculture.

GREY-HEADED FISHING-EAGLE Ichthyophaga ichthyaetus

Only recorded on three occasions during the 1996 Survey; all records coming from coastal areas. Two birds observed flying along the coast; one near Maligano in Square 13 and the second bird south of Bau-Bau in Square 70. The third bird was perched in a dead mangrove tree above a fish pond at Karing Karing (Square 49) and was seen clearly by all members of the group. Positively identified in 1995 at Lakes Togomotonu and Ambuau (Square 55 and Square 54 respectively). An undoubtedly uncommon and localised raptor on Buton which is easily confused with the more common and widespread *I. humilis*.

SMALL SPARROWHAWK Accipiter nanus

Practically impossible to distinguish from A. rhodogaster in adult plumage unless seen well. Juveniles, however, are easily identified and can not be confused with any other species. A rare species on Buton with records from only 16% of squares survey in 1996. Apparently confined to areas of old secondary growth or primary forest. Recorded from near sea-level, and thus not confined to montane forest as previously thought.

A juvenile found on the 8/9/96 was repeatedly chased by an adult Sulawesi Goshawk for some 5 minutes. The juvenile eventually flew off into thicker forest leaving the adult Sulawesi Goshawk, which proceeded to call loudly for 2-3 minutes.

SULAWESI HAWK-EAGLE Spizaetus lanceolatus

An uncommon and infrequently seen raptor, usually seen soaring above forest or the forest edge. Juveniles were more frequently encountered than adults during 1996. Interesting observations include: an adult bird being mobbed by a pair of Piping Crows and a pair of Hair-crested Drongos. The bird was chased into the mid-canopy of a small tree above a forest track, and was observed to have a large fruit bat in its talons. The bird was startled by the observers and flew off, with the bat tightly clutched in its talons, still being mobbed. A second incident involved a juvenile being chased by a pair of Yellow-crested Cockatoos and a single White Imperial Pigeon in late September. The juvenile making a half hearted attempt to catch one of the cockatoos before flying off over the tree tops. In early September a sub-adult was sighted watching a Yellow-crested Cockatoo nest hole. The pair of cockatoos were extremely agitated, one bird repeatedly dive-bombing the raptor, while the second bird screamed continuously from nearby. After 10 minutes the eagle flew over to the nest tree landing on a large branch some 15 feet from the nest. Both cockatoos immediately flew at the raptor screeching loudly, before veering away at the last minute. They continued to fly around the tree screeching for 2-3 minutes before flying off. After 4-5 minutes the eagle flew away, returning after 3 minutes and flying low over the nest tree. At the same time the pair of cockatoos arrived back with a third individual, and gave chase. The cockatoos returned to the nest tree, but seemed wary about approaching the nest hole.

TABON SCRUBFOWL Megapodius cumingii

A very elusive, but probably widespread species in the remaining forests of Buton. There were only two definite records of this species during 1996; one bird seen in July near La Bundo-Bundo Square 45 and a second bird seen in September in Square 50. Both sites consist of good secondary forest. A single bird was recorded from Square 44 in 1995. According to local people this species is occasionally caught for food using snares.

MALAYSIAN PLOVER Charadrius peronii

A very uncommon and highly localised plover which seems to be confined to undisturbed or little disturbed sandy beaches. There is only one record from Buton of a pair and three young on a rarely used stretch of beach in Square 55. According to local people this beach is also used by nesting turtles; turtle eggs are collected by local people in November. Other records for this species include a pair on Hoga Island in the Tukangbesi, and a pair from Snake Island SW of Buton. This species may occur on other beaches around Buton, but the total population is likely to be very small; all populations are at risk from disturbance, and this species is undoubtedly threatened on Buton.

FAR EASTERN CURLEW Numenius madagascariensis

Only recorded during the 1995 survey when 2 birds were observed in Square 56. During the 1996 survey 2 birds were recorded from the Kendari mudflats and adjacent fish ponds in mid-November. It is possible that small numbers of this species occur during passage on Buton. Extensive areas of mudflats exist in NE Buton near Ronta, which could hold significant populations of waders during certain periods of the year.

PIED CUCKOO-SHRIKE Coracina bicolor

An uncommon species which is confined to areas of forest, particularly more mature forest, and forest edge. Usually in small groups of 4-5 birds. A nest found in late September was in a tall isolated tree overhanging a small track. The nest was placed in the fork of a bare branch some 45 feet up, and consisted of a small cup of very fine twigs, grass and cobwebs. A male was observed repairing the nest with cobwebs, and was later seen incubating. Pair observed copulating in late August. Not seen in company with the next species, and rarely common wherever the latter occurs.

RED-BACKED THRUSH Zoothera erythronota

Very uncommon, elusive and easily overlooked species which is only known from three sites. Inhabits the leaf litter of mature secondary forest with little undergrowth. Birds observed rarely perched in the lower branches of undergrowth bushes. Buton birds appear to differ from mainland birds having different facial markings - face all black with with greyish-white area behind the eye, white ear-coverts and a short white malar stripe. It is possible that this represents an underscribed subspecies (see Chapter 10 for full details).

PALE-BELLIED WHITE -EYE Zosterops consobrinorum

A common species which is largely confined to forested or well wooded areas; more rarely found in thick scrubby vegetation close to patches of forest. Found in pairs or small family parties. Pale-bellied White-eyes have typical white-eye habits and song. Often found in the canopy of tall forest trees, but most commonly observed in the understory and thickets along the forest edge. On two occasions this species was found to join bird parties. Unlikely to be threatened in the future as long as some forest, even degraded, remains. A nest found in early August was placed in a low bush a few metres from a main road; the nest was an untidy cup of grasses. The Pale-bellied White-eye is the only Sulawesi endemic to be restricted to the South East Peninsula of Sulawesi, and thus has a tiny global distribution.

#### 5: SULAWESI ENDEMICS

A total of 52 Sulawesi endemics have been identified from Buton. Many of these endemics have proved to be common and widespread with 20 species occurring in 50% or more of the squares surveyed during 1996. A number of endemics have, however, proved extremely rare and/or elusive despite the availability of seemingly suitable habitat. Very little data is available for many of the Sulawesi endemics and effort was made to collect information on the status and behaviour of all endemic species encountered during the surveys. The information presented below represents the findings of the project to date, and has been compiled using the survey records and additional notes made by the author during 5 months of fieldwork in 1996. It is interesting to note that endemic species represented c.40% of birds recorded during all surveys in forested or wooded environments. Surveys conducted in more open and degraded habitats, however, had far fewer Sulawesi endemics, indicating that most endemics are unable to adapt to heavily degraded habitats.

#### SULAWESI SERPENT-EAGLE Spilornis rufipectus

Common throughout Buton, preferring the edges of forest and areas of secondary growth, but also inhabiting the interior of dense forest. Regularly observed sitting motionless on both exposed and concealed perches in the mid canopy. A vocal raptor which calls regularly when perched and while soaring above the forest. Appears to be able to tolerate human disturbance and habitat alteration, and is currently not under pressure.

#### SULAWESI GOSHAWK Accipiter griseiceps

An uncommon and presumably localised species with few records from mature secondary forest and forest edge. Possibly commoner and more widespread in remaining areas of forest than records indicate, as birds are easily overlooked. Single birds usually encountered sitting quietly in the mid canopy of tall forest trees. Juvenile recorded in late June. An adult was observed chasing off a juvenile Small Sparrowhawk on the 8/9/96.

#### SPOT-TAILED GOSHAWK Accipiter trinotatus

The commonest accipiter on Buton with records from 45% of the squares surveyed during 1996. Found to occupy a wide range of forest and wooded habitats, including primary and mature secondary forest, forest edge, mangrove forest, mature plantations, and areas of scrubby growth with forest patches. Keeps mainly to thicker cover, but will cross open country between forest patches. A highly vocal species which readily draws attention to itself once the call is learnt. Probably found throughout much of Buton, wherever forest and forest patches remain. Two pairs and a juvenile were recorded from the same small patch of dry forest near Bau-Bau in mid-October.

# SMALL SPARROWHAWK Accipiter nanus

See Chapter 4 for details.

VINOUS-BREASTED SPARROWHAWK Accipiter rhodogaster butonensis
Readily confused with A. nanus and almost impossible to identify with confidence unless in juvenile plumage. Records from Buton suggest that this species inhabits more open secondary forest and areas of forest edge, and is thus unlikely to compete with the smaller A.

nanus. On one occasion observed flying in the open in pursuit of a small bird.

#### SULAWESI HAWK-EAGLE Spizaetus lanceolatus

See Chapter 4 for details.

#### MALEO Macrocephalon maleo

See Chapter 4 for details.

#### SNORING RAIL Aramidopsis plateni

See Chapter 4 for details.

#### ISABELLINE WATERHEN Amaurornis isabellinus

An uncommon and elusive bird with only a handful of records from widely scattered parts of the island. Found in a wide range of habitats, including marshy areas adjacent to streams and areas of dry rank vegetation of grass and scrub well away from water. A bird walking across a dirt road only feet away from a group of volunteers was unconcerned by their presence. The bird continued to walk slowly across the road before entering thick dry scrub where it disappeared. Probably widespread on the island in small numbers. Observed foraging along vehicle tracks in areas of rank grass, and in thick aquatic vegetation exposed by the receding water at Lake Togomotonu. Generally encountered singly or in pairs. A highly vocal bird at times producing a loud, striking, discordant call ending with a loud, clear tak-tak-tak, most often heard at dusk.

#### WHITE-FACED CUCKOO-DOVE Turacoena manadensis

A generally uncommon to locally common species frequenting areas of forest, secondary forest and forest edge. A vocal bird which is easily recognised by its call - reminiscent of a European Cuckoo. Observed feed in small flocks on small orange figs in the mid and upper canopy, and also on small unidentified fruits of a small bush in overgrown cultivation next to Lake Togomotonu. A quiet and unobtrusive bird when feeding. Occasionally seen walking along dirt roads in overgrown plantations and on the forest edge. A mostly shy species which keeps to cover and is difficult to approach, flying off at great speed through the trees; a very agile flyer.

#### MAROON-CHINNED FRUIT-DOVE Ptlinopus subgularis

Very rare on Buton with only four records during 1995 and 1996. Two records, 4 birds seen on the 14/10/95 and 1 bird on the 1/8/96, are from an area of old secondary forest adjacent to the Maleo breeding sites near Maligano (Square 13). There are also two records of single birds recorded from Square 18 in early October 1995. No other birds have been encountered despite repeated searches in seemingly suitable habitat. On the mainland it is common, but can be difficult to locate keeping to dense foliage in tall trees.

#### WHITE-BELLIED IMPERIAL PIGEON Ducula forsteni

A beautiful species which is usually extremely difficult to observe, keeping to dense cover in the forest canopy. Generally noted in small flocks or singly, especially at dusk when they congregate to roost. In early August a flock of more than 30 birds was observed feeding in a huge fig tree in the early morning. A highly localised pigeon with records from only 7 squares. Appears to favour areas of hill forest, but has been recorded down to 60 m. Never found away from dense forest and could suffer from deforestation in the long term.

#### GREY-HEADED IMPERIAL PIGEON Ducula radiata

The rarest and most localised of all the resident imperial pigeons, being recorded from just 3 squares. Records suggest that it is restricted to areas of mature secondary forest in hilly locations. Encountered singly or in small groups in the canopy of forest trees. Probably threatened on Buton if forest destruction continues.

#### WHITE IMPERIAL PIGEON Ducula Inctnosa

Common to locally abundant, especially in areas with fruiting fig and palm trees. In common with other imperial pigeons this species wanders widely in-search of fruiting trees. During 1996 recorded from 68% of squares surveyed. Inhabits forest, forest edge, mangroves and areas of degraded woodland, wherever there are fruiting trees present. An aggressive species which often shows aggression towards its own kind and other species. On the 28/8/96 a single bird was viewed in a fruiting palm tree repeatedly chasing a group of 3 White Imperial Pigeons, 2 Pink-headed Imperial Pigeons and a Slender-billed Crow. All six birds finally left the tree after being repeatedly chased for 3-5 minutes. Large flocks of this species were observed at dusk flying over the hills north of Maligano towards a large area of mangrove forest, presumably to roost. Nesting activity was recorded in September and November.

#### ORNATE LORY Trichoglossus ornatus

An incredibly beautiful lory which is common throughout Buton wherever there are flowering trees and patches of forest. Most often seen in areas of more open woodland, secondary growth, forest edge and coconut plantations. Regularly attracted to red-flowering trees along the sea-shore. A popular and commonly kept pet in most villages throughout Buton; populations must ultimately suffer as there is no regulation of the numbers caught.

# YELLOW-AND-GREEN LORIKEET Trichoglossus flavoviridis

A highly localised and very rare species with only a handful of records from areas of hill forest. Appears to be confined to areas of mature forest, and is never seen in the open. On mainland Sulawesi this species is shy and elusive, which could help explain the paucity of records on Buton. On mainland Sulawesi this parrot is confined to areas of hill and mountain forest, but it seems that mature forest not altitude is the limiting factor in the distribution of this species. Threatened by forest clearance on Buton.

#### SULAWESI HANGING-PARROT Loriculus stigmatus

The commonest of the two hanging-parrot species which is regularly met with around habitation, especially in coconut plantations. Birds are frequently attracted to flower trees in more open country. Inhabits a wide range of forest and wooded environments including dense forest and mangrove forest. With care it is possible to identify this species in flight once the general size and call have been recognised. Hanging-Parrots are not commonly kept as pets and only two birds were seen in captivity during 1996. Breeding has been recorded in early November - a pair feeding 2 juveniles on the 1/11/96.

#### GREEN HANGING-PARROT Loriculus exilis

Less common than *L. stigmatus*, being found in smaller numbers and in fewer locations around the island. This species appears to be restricted to more forested habitats than *L. stigmatus*, where it keeps to the canopy. Repeatedly confused with *L. stigmatus* during the early stages of 1996 - all Hanging-Parrots without red crowns were attributed to the latter despite the fact that juvenile and female Sulawesi Hanging-Parrots often have little or no red

on the crown. It is thus inevitable that earlier records for this species are erroneous and misleading.

GOLDEN-MANTLED RACKET-TAILED PARROT Prioniturus platurus

A locally common even abundant species, frequenting areas of forest, especially in hilly areas. In one forest in the hills above Maligano over 150 birds where observed in the late afternoon flying high overhead in small (4 - 7 birds) lose flocks. Almost all birds were flying in a northerly direction presumably to roost. An extremely difficult bird to observe, being shy and very wary. Birds freeze in the foliage when approached, before exploding out of the canopy screeching loudly. Readily attracted to trees with small fruits. Active and noisy at night often flying around at height screeching continuously. Very few captive birds were seen in 1996, although this species was formerly caught in large numbers on Buton (Forshaw, 1989).

SULAWESI HAWK-CUCKOO Cuculus crassirostris

A very elusive bird with only 3 sightings during the 1996 survey. All birds seen were in mature secondary forest with numerous large trees. One bird was perched in the canopy of a large bare trees, where it remained for over 10 minutes.

BLACK-BILLED KOEL Eudynamys melanorhyncha

A frustratingly difficult species to observe, which keeps to dense forest cover where it is almost impossible to see. Common and widespread in all forest habitats, including fairly degraded forest patches. The haunting call of this species is one of the commonest sounds on the island (in all suitable habitats); birds calling mostly at dawn and dusk, but also during the night. The few birds observed all had black bills. In 1995 it was reported that the Common Koel *E. scolopacea* was also present on Buton (Viney, 1995), but there is no evidence to support this claim.

FIERY-BILLED MALKOHA Phaenicophaeus calyorhynchus

A striking large and clumsy bird, often seen crashing through the foliage of the mid-storey. Inhabits woodland and forest where individuals search for large insects and small animals. Individuals have a habit of remaining motionless in the foliage while peering around slowly looking for prey. Almost always associated with groups of Macaques - 39 birds counted following one troop. Observed nest building in October - nest was situated inside a small mango tree. One bird was observed 'flycatching' after heavy rain in June - the bird repeatedly snatching termites from the air before crashing to the ground in a heap. Other birds have been observed catching large crickets in the foliage.

BAY COUCAL Centropus celebensis

The call of this bird is characteristic of nearly all forested and wooded areas of Buton. The Bay Coucal occurs throughout the island, with records from 80% of squares surveyed during 1996. A skulking species which creeps around in dense thickets of vines and foliage, and is more often heard than seen. Especially vocal at dawn and dusk, although birds also frequently call at night. Regularly follows groups of Macaques, and frequently joins bird parties. After heavy rain has been observed catching termites from the ground, or snatching flying termites from the air.

SULAWESI OWL Tyto rosenbergii

Uncommon and elusive, although probably more widespread than records suggest. A bird seen clearly on the 6th of November, quartering low over short grassland on Snake Island, is the only definite sighting of this species during 1996. A second bird was heard in the hill forest above Maligano - the call being a typical single drawn-out barn owl screech, repeated at infrequent intervals. Appears able to tolerate a wide range of habitats from dense forest to open scrubby grassland and coconut plantations.

#### SULAWESI SCOPS OWL Otusa manadensis

A common and widespread little owl which occurs throughout the island, wherever there are areas of forest or scattered trees. Able to adapt to well-developed plantations of cashew-nuts and to trees around human habitation. A tame and easily approached bird which is not readily disturbed by spot lights - birds continuing to call even when spot-lit. Probably increasing in numbers due to forest clearance and the creation of more favourable habitat.

SPECKLED HAWK-OWL Ninox punctulata

Only one record from a well-wooded river valley in south Buton; Square 72. The bird was surprised while roosting in a small cave in an area of old secondary forest. No other birds have been encountered and the call has not been recognised. On mainland Sulawesi this Hawk-Owl is said to inhabit more open habitat than *N. ochracea* and is consequently increasing in numbers. Unidentified owl calls heard around Buton may represent this species.

#### OCHRE-BELLIED HAWK-OWL Ninox ochracea

Two birds observed in heavily degraded forest next to Lake Togomotonu are the only records of this species made by Operation Wallacea - Buton is included by White and Bruce (1986) as a location for this species, but no further details are given. Records from mainland Sulawesi indicate that this species inhabits areas of dense forest, but this has not yet been established on Buton. Calls heard at night in dense forest above La Bundo-Bundo have been tentatively attributed to this species.

### SATANIC NIGHTJAR Eurostopodus diabolicus

See Chapter 4 for details.

#### BLUE-HEADED WOOD KINGFISHER Actenoides monachus capucinus

There are only three records of this beautiful kingfisher from widely scattered locations on Buton. All records were from areas of mature secondary forest with little undergrowth. An unobtrusive, solitary, kingfisher which is probably uncommon throughout Buton in remaining areas of dense rainforest. Threatened by forest clearance on Buton.

GREAT-BILLED KINGFISHER Halcyon melanorhyncha melanorhyncha

A locally common kingfisher along less disturbed stretches of coast. Prefers areas of mangroves or rugged stretches of coast with overhanging rocks and vegetation. A few birds were also recorded some distance away from the coast along wide rivers and their tributaries; 2 birds were recorded c.4 kilometres from the coast along a wide fast flowing river in the hills above Maligano, c200 m. Usually seen sitting motionless above the water, and nearly always found in pairs. A very wary species which rarely tolerates observers.

SULAWESI PYGMY KINGFISHER Ceyx fallax

Apparently a scarce species on Buton, which is known from only two sites; Squares 60 and 76. All birds were found in dense undergrowth of old secondary forest; the bright red bill drew attention to the presence of this tiny species in all cases. Possibly more common than the three records indicate, although it is possible that this forest kingfisher has a localised distribution.

PURPLE-WINGED ROLLER Coracias temminckii

Recorded frequently in June and from September to November, in a variety of habitats including cultivation, coconut plantations, forest edge and secondary forest. Birds were found to be more closely associated with forested habitats from July to mid-September; occurring in the forest canopy; on one occasion a pair was found in the forest understory. Readily attracted to recently felled trees along the forest edge. Usually in pairs or small family groups of up to 6 birds. Observed catching large insects on short flights, the bird returning to the same perch to consume the prey.

SULAWESI HORNBILL Penelopides exarhatus

Less conspicuous and more rarely encountered than the much larger Red-Knobbed Hornbill; may prove to be as widespread and common as the latter species. Largely confined to mature forest, more rarely present in degraded forest. Always encountered in small family parties of 5 - 7 birds. Keeps to the forest sub-canopy where it is difficult to observe despite their characteristic calls which attract attention. All males seen had bright yellow faces - presumably stained by fruit juices. Observed crossing small open areas in order to reach adjacent patches of forest, but does not seem to be able to cross wider breaks in the forest cover. A vocal species, especially when different groups meet up.

RED-KOBBED HORNBILL Rhyticeros cassidix

A common and conspicuous bird on Buton which occurs in surprisingly high densities. This hornbill is dependent on forested areas, but is regularly seen in more open country at fruiting palm and fig trees. A single female was observed flying across a wide (c.2 km) valley. This species is under enormous pressure from forest clearance and the removal of large nesting trees. Few pairs appeared to be breeding in the south during the nesting season (August to November), as most birds encountered where in pairs. The forest in the south is under heavy pressure from large transmigration settlements, and extensive areas of forest have already been cleared. Large trees in more isolated and difficult to reach forests are now being targeted by timber cutters as few large trees exist in more readily accessible areas.

SULAWESI PYGMY WOODPECKER Picoides temminckii

Apparently very uncommon and localised on Buton with surprisingly few records, although it is easily overlooked. Regarded as common on mainland Sulawesi. Recorded in dense secondary forest and forest edge; particularly attracted to dead trees along the forest edge. Found in pairs or small family parties of up to 4 birds. Observed searching for food on vines and small branches.

ASHY WOODPECKER Mulleripicus fulvus

Pairs and small family parties of up to 7 birds were regularly encountered in forested and wooded environments; including mangroves and coconut plantations. Not confined to dense forest, as individuals were frequently found in heavily degraded habitat, even tiny forest patches. Not particularly shy, birds allowing a close approach on occasion. Observed

feeding mostly on standing living and dead wood, also vines and even thin branches; never observed on or near the ground. Aggression between males observed on a number of occasions with birds chasing each other through the forest - two males chased each other for over 10 minutes. Males were regularly heard drumming on a dead branch or tree trunk in October and November.

#### PIED CUCKOO-SHRIKE Coracina bicolor

See Chapter 4 for details.

#### WHITE-RUMPED CUCKOO-SHRIKE Coracina leucopygia

A common species regularly encountered in pairs and small family groups. Occurs in the forest margins and in degraded secondary forest, but is most commonly seen in more open habitats including areas of scrub. Particularly common in areas of mangrove adjacent to plantations and woodland. A very vocal species; members of a group constantly calling to each other particularly in flight.

#### SULAWESI CICADABIRD Coracina morio

Frequently encountered in forest habitats including secondary growth; mostly in pairs. Prefers more wooded locations to the more common *C. tenuirostris*, but both can be found together in areas of degraded secondary forest. A highly vocal bird which is more often heard than seen in dense forest.

#### SULAWESI PIED TRILLER Lalage leucopygialis

As with the last species the Sulawesi Pied Triller has been found to prefer more wooded and forested habitats. Mostly encountered in pairs, occasionally in close proximity to *L. sueurii*. The latter tends to be more of a forest edge and savanna species and is thus more widely distributed than *L. leucopygialis*. This is an active species which searches energetically through the branches of forest trees for insects.

#### PIPING CROW Corvus typicus

A widespread and not uncommon species which is nearly always encountered in pairs. Found to inhabit a wide range of habitats, including fringing mangrove forest, degraded secondary forest and dense forest. Occasionally seen in isolated trees in cultivated areas. In forest areas birds appear wary, although they are inquisitive and will approach the observer, before flying away through the canopy screeching loudly.

Aggression towards the larger Slender-billed Crow was shown on a number of occasions. One pair were observed attacking a pair of *C. enca* at fish ponds at Karing Karing, Square 49. The pair of *C. enca* were initially attacked by one Piping Crow while perched in a tall palm tree overlooking the fish ponds. The Piping Crow dive-bombed both birds repeatedly screeching and whistling all the time. A second bird joined the first and both *C. enca* flew away across the fish ponds closely pursued by the Piping Crows. The latter broke off after some 200 m, returning to the original palm tree; both birds performing some kind of display flight with dropped and fluttering wings. Two birds watched eating small orange figs in a small tree. Pair recorded with fledgling in late June.

#### SULAWESI BABBLER Trichastoma celebense

A ubiquitous species occurring throughout the island, where it inhabits a wide range of habitats from dense forest undergrowth to areas of grassland or scrub. Able to tolerate and even thrive in heavily degraded habitats as long as there is dense undergrowth. Generally in

pairs or small family groups. A skulking species that is not particularly shy, often being found at the observers feet. An inquisitive bird which will often approach the observer to obtain a better look, before disappearing quietly into the undergrowth again. Extremely vocal in the early morning until about 8.00 a.m, but rarely heard during the remainder of the day although some birds will call at dusk.

# RED-BACKED THRUSH Zoothera erythronota

See Chapter 4 for details.

RUSTY-BELLIED FANTAIL Rhipidura teysmanni

There are two, unexpected, records from Buton, both from c.60 m which is considerable lower than this species has ever been recorded on the mainland. One bird was observed in an old overgrown cashew-nut plantation just outside of Pasarwajo, Square 68; the second bird was seen in old secondary forest near the Maleo breeding site, Square 13. This active species has not been found at any other location and must be extremely uncommon probably a relict and decreasing population.

# IVORY-BACKED WOODSWALLOW Artamus monachus

Commoner in the north of the island than the drier south. Always associated with forest edge environments where it replaces the more abundant White-breasted Woodswallow. A nest was found on the 11/11/96 in a bare tree alongside a forest road in Square 66. The nest was placed in a fork about 30 feet up, and consisted of an untidy cup of twigs and mosses. One bird was sitting on the nest while two other birds were perched nearby.

# SULAWESI CRESTED MYNA Basilornis celebensis

Pairs and occasionally small groups of up to 5 birds were seen on most forest or woodland surveys. Less common than the other 2 endemic myna species, with birds keeping to the forest canopy where they are not readily noted. Groups are occasionally attracted to flowering trees in more open habitats.

WHITE-NECKED MYNA Streptocitta albicollis

A generally common and widespread species which occurs in plantations, secondary forest, dense forest and savanna areas with forest patches. Usually in pairs or small groups. An active and noisy species, which moves around in the canopy in an acrobatic almost squirrel like manner. Individuals regularly hang upside-down to reach small figs and berries. Frequently perch at the top of isolated dead trees in cultivated areas. Nesting activity noted on the 24/10/96; nest hole c.35 feet up in a horizontal branch. Fledglings were also seen on the 20/6/96 in the company of a group of adults.

# FINCH-BILLED MYNA Scissirostrum dubium

A localised, but common species which is closely associated to its nesting trees during the breeding season. Most often encountered in or close to forest or forest edge. A number of breeding colonies were recorded during 1996 - usually number between 50 - 300 birds. Two non-breeding roost sites were also found; one was found in June in a group of palm trees in the middle of a paddi field (Square 57); the second roost was found in August in 3 tall leafless trees close to the forest edge, and comprised of c.250 Finch-billed Mynas and c.350 Rainbow Bee-eaters *Merops ornatus* (Square 49).

# YELLOW-SIDED FLOWERPECKER Dicaeum aureolimbatum

A commonly encountered bird in both woodland and forest habitats. Regularly found in the canopy of dense forest, but more often seen in bushes and low trees along the forest edge. Attracted, often in large numbers, to fruiting wild cherry bushes. A highly active species which is extremely difficult to follow as it flits around constantly amongst the branches. One of the most widely distributed birds on Buton, occurring in 77% of Squares surveyed during 1996.

# CRIMSON-CROWNED FLOWERPECKER Dicaeum nehrkorni

A very uncommon species which has been recorded from only 4 squares in the south of Buton - all sites at an altitude of between c.200-250 m. The altitudes recorded from Buton represent a considerable decrease in the previous lower altitudinal limit for this species (previously recorded down to 700 m). All four birds observed were male, 3 were encountered in good secondary forest, while the fourth bird was seen in an area of scrubby secondary forest adjacent to a larger area of forest.

#### GREY-SIDED FLOWERPECKER Dicaeum celebicum

Common, even abundant, in most habitats including savanna and areas of scrub. Appears to be more common than *D. aureolimbatum* in more scrubby habitat, but is less common in heavily wooded areas. Common in coconut plantations, including those on small neighbouring islands. A pair were observed feeding young on the 6/8/96; the nest was a straggly ball of fine grasses and twigs placed beneath a large leaf.

# **PALE-BELLIED WHITE-EYE** Zosterops consobrinorum See Chapter 4 for details.

#### 6. INDONESIAN ENDEMICS

A total of 9 Indonesian endemics have been identified from Buton; most are common and widespread. A number of these Indonesian endemics have very restricted ranges and comparatively little is known about their behaviour and status. Two species are small island specialists, being restricted to the small islands in the Flores and Banda Seas.

#### SPOTTED KESTREL Falco moluccensis

A surprisingly uncommon and localised falcon, throughout much of Buton despite the availability of suitable open habitat. Invariably encountered in pairs, occasionally singly, over open grassland or scrub. One record of 2 birds from a forested river in Square 13. The absence of Spotted Kestrel from large areas of suitable habitat, is probably due to the speed with which these habitats have been created in recent years, and birds have thus not had the opportunity to occupy these habitats.

SUNDA TEAL Anas gibberifrons

Previously regarded as a race of the Grey Teal A. gracilis and only recently given full species status. A wide ranging but comparatively little known species (Young, 1996), occurring throughout Indonesia from S Sumatra to Timor and Sulawesi.

On Buton found in at least 5 squares, with the highest population found around Lake Togomotonu (maximum count c.140). Smaller numbers found in paddi fields, fish ponds and adjacent mangrove forests.

X

# GREY-CHEEKED GREEN PIGEON Treron griseicauda

Restricted to the islands of Java, Bali and Sulawesi, plus small neighbouring islands. A common even locally abundant bird on Buton which was found in 70% of all squares surveyed during 1996. Appears to be a nomadic species which wanders widely in search of fruiting trees (mainly fig). Evidence indicates that birds move between Buton and the mainland; during 1995 *T. greiseicauda* was found to be less common than the Pink-necked Green Pigeon *T. vernans*; during 1996 the opposite was found to be the case. Found in a wide range of habitats, but appeared to be commoner in coastal areas, especially in more open locations and along the forest edge. Often congregating in large groups (20-60 birds) in favoured fruiting trees, where birds were often difficult to detect in the foliage. During October and November birds were more active - males chasing each other constantly through the foliage.

#### BLUE-TAILED IMPERIAL PIGEON Ducula concinna

A small island specialist which is restricted to the small islands north, east and south of Sulawesi, plus small islands between Seram and the Kei Islands in the Banda Sea. An uncommon visitor to coastal areas of Buton Island; small numbers recorded during 1995 from 6 squares, while only 2 birds were seen during 1996 (Square 18). All birds seen were in woodland or forest adjacent to the coast. This species has been seen on a number of occasions on Hoga Island in the Tukangbesi. This magnificent Imperial Pigeon is not easily confused with any other imperial pigeons when seen clearly - wings, back, rump and tail shinning green intermixed with dark blue, especially on wings and tail; underparts pale grey, belly white, some chestnut on vent; head and neck pale silvery grey, pale salmon-pink tinge on nape and crown; clear white area at base of bill and on forehead; under-wing entirely black (description made on Hoga Island by author 12/8/96).

#### PINK-HEADED IMPERIAL PIGEON Ducula rosacea

Restricted to small islands in the Flores and Banda Seas, plus the Lesser Sunda islands; straggler on Sulawesi (Goodwin, 1967). Some confusion still surrounds the identity of this Imperial Pigeon which is very similar in overall appearance to the more widespread Green Imperial Pigeon *D. aenea*. The following field characteristics were noted during 1995 (Sykes, 1996) and subsequently used during the 1996 surveys: The upper parts of *D. aenea* are richer green with a large coppery nuchal patch. *D. rosacea* was larger and duller in appearance, with a more extensive but paler area of coppery pink on the nuchal patch. Viney (1995) questioned the accuracy of *D. aenea* records from Buton, regarding all birds as *D. rosacea*. Photographs taken of specimens from Tring (British Museum of Natural History) were of little help being old and faded. The author is not totally satisfied with the above, and subsequent literature searches seem to indicate that all, or at least most, birds on Buton may prove to be the more widespread *D. aenea* - more work must be done on this species during 1997 in order to determine the status of this species.

A common even abundant species throughout Buton, inhabiting forested and open country wherever fruiting trees are present; recorded from 80% of squares surveyed during 1996. Attracted to isolated fruiting palm and fig trees in open country, but appears to prefer forest edge environments. Roosts communally in small groups, in large forest trees from which birds disperse in the early morning. A highly vocal species. Display flights often observed:

birds during normal flight suddenly shoot up 2-3 metres before hanging poised for a moment and then diving steeply, before levelling off or landing in a tree.

# YELLOW-CRESTED COCKATOO Cacatua sulphurea See Chapter 4 for details.

INDONESIAN CUCKOO Cacomantis sepulcralis verescens

A not uncommon bird, which is certainly more widespread than the records indicate; recorded from only 7 squares during 1996. More often heard than seen, being difficult to spot in the forest canopy. Appears to prefer forested locations including forest edge, secondary growth and overgrown plantations.

# BLACK-FACED MUNIA Lonchura molucca

Restricted to the Moluccan region of Indonesia. A locally common munia in rice fields, grassland, bushes and scrub throughout much of Buton, particularly along the edge of forest and cultivated areas. Frequently found in small numbers along the roadsides. Large numbers, more than 100 birds, regularly seen in the vicinity of rice fields. A party of 9 juveniles were noted in early July.

PALE-HEADED MUNIA Lonchura pallida

Restricted to the Lesser Sunda islands, plus central and southern Sulawesi (Clement 1993). By far the most uncommon munia on Buton with very few records in either 1995 or 1996. A group of 50 birds was recorded from Square 54 during 1995, but only 6 birds were seen during the whole of 1996 (Square 44). Inhabits grassland, fallow fields and more rarely rice fields, especially along the forest margins or in forest clearings.

# 7: NEW SPECIES ADDED TO THE BUTON LIST DURING 1996

During the 1996 Bird Survey a total of 35 species were added to the Buton list, including 5 Sulawesi endemics. Included within this total are 3 species which were recorded only from Siumpu and Snake Islands SW of Buton. In addition 2 unconfirmed species were sighted and 1 species was reported which requires further data before its occurrence can be proved. Although previously recorded from Buton (White & Bruce, 1986), the Ochre-bellied Hawk-Owl was recorded for the first time by the Operation Wallacea.

Common Name	Systematic Name	
Christmas Island Frigatebird	Fregata andrewsi	<u>, ,</u>
White-faced Heron	Ardea novaehollandiae	
Ailky Stork	Mycteria cinerea	
Spotted Harrier	Circus assimilis	SI
astern Marsh Harrier	Circus spilonotus	<u></u>
Rufous-bellied Eagle	Hieraaetus pennatus	1995
Pacific Black Duck	Anas superciliosa	
Purple Swamphen	Porphyrio porphyrio	
Grey Plover	Pluvialis squatarola	
esser Sand-Plover	Charadrius mongolus	
Malaysian Plover	Charadrius peronii	
Ruddy Turnstone	Arenaria interpres	
Curlew Sandpiper	Calidris ferruginea	
Dunlin	Caldris alpina	
Red-necked Phalarope	Phalaropus lobatus	<u> </u>
Nordmann's Greenshank	Tringa guttifer	
Bristle-thighed Curlew	Numenius tahitiensis	**
Beach Thick-Knee	Esacus magnirostris	SI
Oriental Pratincole	Glareola maldivarum	
Whiskered Tern	Chlidonias hybridus	
White-winged Tern	Chlidonias leucopterus	
Bridled Tern	Sterna anaethetus	
Fairy Tem	Gygis alba	
Zebra Dove	Geopelia striata	SI
Speckled Hawk-Owl	Ninox punctulata	
Ochre-bellied Hawk-Owl	Ninox ochracea	PR
Satanic Nightjar	Eurostopodus diabolicus	
Long-tailed Nightjar	Caprimulgus macrurus	
White-throated Needletail	Hirundapus caudacutus	<u> </u>
House Swift	Apus nipalensis	
Blue-headed Wood-Kingfisher	Actenoides monachus	
Sulawesi Pygmy Kingfisher	Ceyx fallax	
Hooded Pitta	Pitta sordida	1 1
Clamorous Reed-Warbler	Acrocephalus stentoreus	<u> </u>
Rusty-bellied Fantail	Rhipidura teysmanni	1005
Mangrove Whistler	Pachycephala grisola	1995
Tiger Shrike	Lanius tigrinus	4005
Asian Glossy Starling	Aplonis panayensis	1995
Crimson-crowned Flowerpecker	Dicaeum nehrkorni	1995
* - probable record		
- possible sightings requiring !	urther data	
** - unconfirmed record		<del> </del>
SI - recorded from Siumpu or Si	nake Island only	
PR - recorded from Buton prior 1995 - species suspected of oc	to the 1995	

The addition of so many species to the Buton bird list proved something of a surprise as after the first year of survey work only a few species may have been expected to be added. The large number of new species can, however, be explained in part by the emphasis placed on previously under-surveyed habitats, especially coastal areas and areas of lowland forest.

CHRISTMAS ISLAND FRIGATEBIRD Fregata andrewsi

A small group of 4 birds were seen on the 24/6/96 off shore from Maligano; the group consisted of a male, one female and two juveniles. This species is a regular visitor to the coast of north Borneo, but has not definitely been recorded from Sulawesi. Two specimens are reported from N Sulawesi but these remain unconfirmed (White & Bruce, 1986).

WHITE-FACED HERON Ardea novaehollandiae

A single bird was observed in the company of 35 Little Egrets *Egreta garzetta* in an area of unplanted rice fields on the 20/8/96 (photographs were taken). A very rare migrant to Sulawesi, although this species is more regular further east. Birds are thought to represent non-breeding migrants from Australia.

MILKY STORK Mycteria cinerea

See Chapter 4 for details.

SPOTTED HARRIER Circus assimilis

An adult seen on the 10/9/96 on Siumpu Island SW of Buton is the only record. The bird was observed flying low over an area of open grassland and scrub. This raptor is common in SE Sulawesi, and may well be widespread on Muna which has large areas of suitable open habitat.

EASTERN MARSH HARRIER Circus spilonotus

Single record of an immature quartering low over rice fields north of Bau-Bau in Square 57. An unconfirmed report was made of this species during the 1995 survey and it is possible that small numbers of this species are resident or occur occasionally as vagrants.

RUFOUS-BELLIED EAGLE Hieraaetus kienerii

Reported during 1995, but only recorded with certainty during the 1996 survey. Found to be widespread, with records from 7 squares (mainly in the east and around Maligano). All records are of birds soaring above forest in hilly areas.

PACIFIC BLACK DUCK Anas superciliosa

A very uncommon duck with records from the fish ponds at Karing Karing (Square 49) and Maligano. This species is also uncommon and localised on the Sulawesi mainland, and it is not known whether birds on Buton are resident or migrants from the mainland.

PURPLE SWAMPHEN Porphyrio porphyrio

Four birds were observed at Lake Togomotonu in July. Suitable habitat around the lake is only present during the rainy season and birds are probably forced to migrate during the dry season, possibly to the mainland?

GREY PLOVER Pluvialis squatarola

Two birds were recorded from Buton during 1996, with a further 2 birds from nearby Snake Island.

LESSER SAND-PLOVER Charadrius mongolus

One bird recorded from an undisturbed beach in Square 55. This species has also been recorded from Hoga, and c.24 were observed at the Kendari fish ponds in mid-November.

# MALAYSIAN PLOVER Charadrius peronii

See Chapter 4 for details.

RUDDY TURNSTONE Arenaria interpres

A single bird was observed on an undisturbed beach in Square 55. The bird was still in partial breeding plumage. Also recorded from Hoga Island in the Tukangbesi.

CURLEW SANDPIPER Calidris ferruginea

Two birds seen flying along a beach at Square 83 remain the only records from Buton.

DUNLIN Calidris alpina

A single bird was observed at low tide beside the pier at Maligano on the 5/11/96. Vagrants are known to reach Australia, and there are a handful of unconfirmed reports from S Sulawesi, including a recent report of 15 near Ujung Pandang in late 1989 (Baltzer, 1990).

RED-NECKED PHALAROPE Phalaropes lobatus

Large numbers observed during sea voyages during 1995 and 1996. A group of 21 birds and a second group of 8 birds were observed close to Maligano on the 10/9/96. A substantial population of this phalarope appear to over winter in the seas south and east of Buton, as all birds seen were flying towards the south and south-east.

# NORDMANN'S GREENSHANK Tringa guttifer

See Chapter 4 for details.

# BRISTLE-THIGHED CURLEW Numenius tahitiensis

See Chapter 4 for details.

BEACH THICK-KNEE Esacus magnirostris

A single bird observed on Snake Island SW of Buton is the only record of this species from Buton. This huge thick-knee seems to prefer undisturbed beaches and is thus absent from most coastal areas around Buton. A pair are known to be resident on Hoga Island in the Tukangbesi, where they keep to the far side of the island away from the marine base. There are only 2 recent reports of this species from Sulawesi (del Hoyo, 1996).

ORIENTAL PRATINCOLE Glareola maldivarum

Five birds seen flying overhead in Square 66 and a single bird seen at Maligano are the only records of this species.

# WHISKERED TERN Chlidonias hybridus

A single bird in non-breeding plumage was observed at Lake Togomotonu on the 2/11/96. The bird was observed perched on a log in the middle of the lake, plus feeding low over the water.

## WHITE-WINGED TERN Chlidonias leucopterus

Single birds were seen close inshore in Squares 28 and 74. This tern was seen regularly, often in large numbers, during sea voyages in October and November. Huge mixed flocks, numbering hundreds of birds, White-winged Terns, Bridled Terns and Sooty Terns *S. fuscata* were regularly seen in the striates between Wowoni Island and Buton Island during these months.

#### BRIDLED TERN Sterna anaethetus

A single bird was recorded off-shore from Square 28 in mid-August. One of the commonest terns in the area during the months of October and November.

# FAIRY TERN Gygis alba

Four Fairy Terns were seen in a small mixed flock off-shore from Square 28 on the 17/9/96. During August and September a small colony of Fairy Terns was regularly observed from the Kendari - Bau-Bau Ferry on small islets near Raha on Muna. It is possible that the terns were nesting in the trees present on the islets as birds were observed constantly entering and leaving the trees.

# ZEBRA DOVE Geopelia striata

A pair of doves were observed sunning themselves on Siumpu Island on the 10/9/96. Both birds allowed a close approach (within 15 feet).

# SPECKLED HAWK-OWL Ninox punctulata

See Chapter 5 for details.

#### OCHRE-BELLIED HAWK-OWL Ninox ochracea

See Chapter 5 for details. This species has previously been recorded from Buton, but not by Operation Wallacea (White & Bruce, 1986).

## SATANIC NIGHTJAR Eurostopodus diabolicus

See Chapter 4 for details.

# LONG-TAILED NIGHTJAR Caprimulgus macrurus

A bird was observed at close quarters along a road in an area of grassland close to Maligano. The description and call seem to be identical to this species. The race C. m. schlegelii is know from the Lesser Sundas and the islands of Salayar and Tanahjampea south of Sulawesi. A second form which was previously included as a subspecies of the Long-tailed Nightjar has recently been given full species status as the Sulawesi Nightjar C. celebensis. The latter is found in north Sulawesi and on the island of Sula. Given the proximity of the Salayar and Tanahjampea Islands to Buton and the similar habitats found on both, it is more likely that the bird seen belongs to C. macrurus and not to C. celebensis.

# WHITE-THROATED NEEDLETAIL Hirundapus caudactutus

A single bird was observed in the early morning in the company of a Fork-tailed Swift, a Purple Needletail and c.30 Pacific Swallows, just off the Maligano jetty on the 25/10/97.

# HOUSE SWIFT Apus nipalensis

Unconfirmed reports of this species from near Bau-Bau airport were made in 1995. In 1996 this species was found to be locally common along a stretch of rugged coast and beach in Square 70. A maximum count of c.25 birds was made in early August.

#### BLUE-HEADED WOOD-KINGFISHER Actenoides monachus

See Chapter 5 for details.

# SULAWESI PYGMY KINGFISHER Ceyx fallax

See Chapter 5 for details.

#### HOODED PITTA Pitta sordida

This Hooded Pitta remains a probable, but unconfirmed species, as no details were provided by the observers! A total of 3 birds were seen in the hill forest near Labuana (Square 5) in late July 1996. If these records are subsequently accepted they will represent a substantial range extension for this species - previously only recorded from N Sulawesi.

# CLAMOROUS REED-WARBLER Acrocephalus stentoreus

A singing bird was heard in late August at Wakalambe (Square 49) in thick vegetation adjacent to a small pond; this bird was still calling in early November. Two birds were heard and seen at Maligano in October in an area of rank grass.

#### RUSTY-BELLIED FANTAIL Rhipidura teysmanni

See Chapter 5 for details.

#### MANGROVE WHISTLER Pachycephala grisola

Unconfirmed reports of a whistler type bird were made in 1995 in Square 56. Observations of whistlers, made in mangroves at Lawele in July and Maligano in August, confirmed the presence of *P. grisola* on Buton. This is a significant discovery as no whistlers had been previously recorded in lowland habitats on Sulawesi. Small numbers of this species have since been heard or seen around the island, but numbers are very small and the species is obviously very uncommon and localised. This species is known from the Greater Sundas.

#### TIGER SHRIKE Lanius tigrinus

An unconfirmed record as no details were provided by the observers. Previously recorded from N and E Sulawesi and its occurrence on Buton is thus likely. Single bird reported from Square 58 on the 3/7/96 and 2 birds from Square 49 on the 4/7/96.

#### ASIAN GLOSSY STARLING Aplonis panayensis

A great deal of confusion existed in 1995 as to the identity of the glossy starling found on Buton. The Short-tailed Glossy Starling A. minor had previously been recorded on Buton by White and Bruce (1986), while A. panayensis was known only from N and NC Sulawesi. Both species have now been identified on Buton with A. panayensis being by far the commoner of the two starling species. A. minor appears to be uncommon and localised

with the largest concentration being in the north of the island around Labuana. Both species have been seen together around the latter location.

CRIMSON-CROWNED FLOWERPECKER - Dicaeum nehrkorni See Chapter 5 for details.

# 8: UNCONFIRMED SPECIES ON BUTON

A number of species were suspected, but not confirmed, of occurring on Buton during the 1995 Bird Survey. The confusion surrounding many of these species was resolved during the 1996 Bird Survey, but work carried out during this period was unable to resolve all of the queries raised during the previous year, and a number of species remain as unconfirmed and/or doubtful in some cases. Not all unconfirmed reports relate to the 1995 survey period. Mention needs to be made of the following:

**Dusky Cuckoo-Dove** *Macropygia magma*: this species was reported on a number of occasions during 1995, and although a number of 'unusual' Slender-billed Cuckoo-Doves *M. amboinensis* were sighted in 1996 none were thought to be *M. magma*. The latter species is a small island specialist which is known to occur on a chain of islands in the Flores Sea south of Sulawesi. There is some variation in the colouration of *M. amboinensis* on Buton, both between the sexes and between adults and juveniles, which may help to explain some of the confusion.

Barred Buttonquail Turnix suscitator: Confusion still surrounds the identity of the Turnix species on Buton Island. During the 1996 survey a number of buttonquails were recorded from various squares, but sightings were inadequate in most cases to provide a positive identification. A single Red-backed Buttonquail T. maculosa was identified from Square 56 and 4 birds were clearly seen on Snake Island SW of Bau-Bau on 14/11/96. 1995 reports of Barred Buttonquail T. suscitator remain unconfirmed.

**Bonnelli's Eagle** *Hieraaetus fasciatus*: A single bird was seen at Maligano on the 27/10/95. This species is not known from Sulawesi, but a small population is known to occur on the islands of Sumba, Timor and Wetar in the Lesser Sundas (del Hoyo, 1994).

Black-thighed Falconet Microhierax fringillarius: A report of this species was made in 1995, but no further sightings have been made. The 1995 report was based on 2 birds seen on the 14/10/95 in Square 18. Both birds were observed at a distance, perched in the top of a tall dead tree on the edge of a partly felled forest. A sketch and notes were taken by Sykes who is familiar with this species. Buton is well outside the recognised range of all Microhierax species, although M. fringillarius is known to occur in both Borneo and Bali. All members of this genus are very easily overlooked and the species could well be present in small numbers in the Sulawesi region.

Black-tailed Gull Larus crassirostris: A record of this species was made on the 30/10/95 close inshore at Lasalimu (Square 48). All key identification features were noted and this record appears to be acceptable; White and Bruce (1986) include this species as an expected vagrant in the Wallacean region.

Javanese Turtle Dove Streptopelia bitorquata: Single captive bird seen on Siumpu Island on the 13/11/96. According to local people the bird had been caught locally, but no birds were seen on the island. If this species is present then the population has almost certainly been introduced. Occurs from Java through the Lesser Sundas to Timor, inhabiting open country, cultivated areas and the outskirts of villages (Goodwin, 1967).

Red-Spotted Racket-tailed Parrot *Prioniturus flavicans*: A number of reports of this species were made in August and September of 1995, but no sightings were made of this species in 1996. The much smaller Golden-mantled Racket-tailed Parrot *P. platurus* is locally common on Buton, and it seems unlikely that the ecologically similar *P. flavicans* will also be present. *P. flavicans* has only been recorded from N and NC Sulawesi where it inhabits montane forest, but it is little known and could conceivably occur in SE Sulawesi.

**Purple-bearded Bee-eater** *Meropogon forsteni*: A single bird reported from Square 44 in 1995 remains the only possible record of this Sulawesi endemic from Buton. This is a unobtrusive inhabitant of undisturbed and mature secondary forest in N, C and SE Sulawesi and it is possible that a small population of this species is present on Buton.

Geomalia Geomalia heinrichi: Two birds reported from Square 44 on the 4/8/95 seem highly doubtful, given the altitudinal range of this montane species; only recorded between 1700-3500 m (White & Bruce, 1986).

Sulawesi Mountain Drongo Dicururus [bracteatus] montanus: Despite a number of reports during 1995 of this species from 'high' altitude in the south, there seems to be no evidence to support the occurrence of this drongo on Buton. No birds were seen during 1996 with dark eyes despite constant checks being made, and the most likely explanation for 'dark' eyed birds is that they represent juveniles of D. hottentottus.

Common Tailorbird Orthotomus sutorius: 3 birds were seen in Square 18 on 15/10/95, and a single bird was seen on 11/10/95 in Square 44. A tailorbird was briefly sighted on the 25/6/96 in Square 18. As described in the commentary of the 1995 report (Sykes, 1996), Buton is well outside the accepted range of this species, although the Mountain Tailorbird O. cuculatus is known to occur in SE Sulawesi between 1000-2000 m.

**Reed-Warbler Species** Acrocophalus species: On the 26/696 a large unidentified reed-warbler was observed by 2 members of the group in a small patch of reeds and other aquatic vegetation along a thickly forested river in Square 5. The bird was mainly brown in colour with no supercilium, a whitish throat and upper breast, grey legs and a red-brown tail. Neither observer recognised the bird, despite being familiar with both reed-warbler species in the area - A. orientalis and A. stentoreus.

**Leaf-Warbler/Migratory Warbler** *Phylloscopus species*: A number of reports were made during 1995 (August to October) of *Phylloscopus* type warblers in Squares 19, 45 and 67. Opinion differed on whether the birds seen were Arctic Warblers *P. borealis* "a winter visitor throughout Wallacea" (White & Bruce, 1986), or the endemic Sulawesi Leaf-Warbler *P. sarasinorum* which is only known from mainland Sulawesi above 1100 m. No *Phylloscopus* type warblers were reported from Buton during the 1996 Survey, until early

November when a single bird was heard calling just south of Maligano - tape recordings were, but no identification has been made to date.

Blue Flycatcher species: 2 'blue flycatchers' were reported from Square 67 on 3/8/95 and a single bird was reported from Square 44 on 4/8/95. During the 1996 survey a 'blue flycatcher' was briefly sighted on 28/6/96 from Square 18. These records could relate to the endemic Rufous-throated Flycatcher *Fidecula rufigula* which may occur on Buton; this species is known to occur in SE Sulawesi (Wardill, 1995).

**Red-throated Pipit** Anthus cervinus: A report of this species from Square 13 on the 12/11/95 seems to be reliable. This species has previously been records from N and E Sulawesi (White & Bruce, 1986).

Lemon-throated White-eye Zoosterops anomalus: Reported during 1995 and during the early part of 1996. Both Z. anomalus and the Pale-bellied White-eye Z. consobrinorum are very similar in general plumage but differ significantly in the latter having a large white-eye ring which is replaced by a black-eye ring in Z. anomalus. All birds observed on Buton had large white-eye rings, and it is very unlikely that Z. anomalus will be found on Buton, as it is restricted to the southern peninsula of Sulawesi around Ujung Pandang (White & Bruce, 1986).

# 8.1: ADDITIONAL SPECIES TO WATCH OUT FOR DURING 1997

During a recent survey of the Rawa Aopa Watumohai National Park in SE Sulawesi a number of species were recorded which have not as yet been found on Buton. Most of these species are restricted to wetland or forest habitats, and some species may be expected to occur on Buton, especially in the well forested north of the island which has not been adequately surveyed to date. Of particular interest are the 4 Sulawesi endemics which have been found in lowland forest habitats. One species, the Bald-faced Rail *Gymnocrex rosenbergii*, is an endangered species.

Common Name	Systematic Name	Sulawesi	Habitat
		Endemics	
Nankeen Night-Heron	Nycticorax caledonicus		W
Yellow Bittern	Ixobrychus sinensis		W
Glossy Ibis	Plegadis falcinellus		W
Blue-breasted Quail	Cotumix chinensis		G
Little Curlew	Numenius minutus		M
Bald-faced Rail	Gymnocrex rosenbergii	#	LF
Sulawesi Ground-Dove	Gallicolumba tristigmata	*	LF
Superb Fruit-Dove	Ptilinopus superbus		HF
Lilac Kingfisher	Cittura cyanotis	•	LF_
Rufous-throated Flycatcher	Ficedula rufigula	*	LF
W = Wetland			
M = Mud-flats			
LF = Lowland Forest			
HF = Lowland & Hill Forest			

#### 9: CHANGES TO ALTITUDINAL RANGES OF SELECTED SPECIES

Buton Island is dominated by a ridge of hills running north-south down the centre of the island and by a large hilly range at the north end of the island which reaches a maximum elevation of 1100 m. As Buton does not reach any appreciable height the island's avifuna is relatively impoverished with most montane species found on the mainland being absent. In particular a number of Sulawesi montane endemics are not found on Buton due to the lack of suitable habitat. Work done during the past two years has, however, produced some unexpected resulted, with a number of species occurring on Buton at much lower elevations, than previously recorded on mainland Sulawesi. A feature of oceanic islands is the lowering of the altitude at which montane communities are found, but a number of changes recorded have been considerably larger than may have been expected.

Table 9: Comparison of Altitudir	nal Ranges for Selected Specie	es.	
Common Name	Systematic Name	Previous Recorded	Altitudes Recorded
		Altitudes	On Buton
Spot-tailed Goshawk	Accipiter trinotatus	250-1600m	Om
Small Sparrowhawk	Accipiter nanus	600-2250m	60m
Vinous-breasted Sparrowhawk	Accipiter rhodogaster	0-2250m	50m
Slender-billed Cuckoo-Dove	Macropygia amboinensis	100-2250m	Om
White-bellied Imperial Pigeon	Ducula forsteni	300-1500m	50m
Grey-headed Imperial Pigeon	Ducula radiata	1100-2400m	250m
Yellow-and-Green Lorikeet	Trichoglossus flavoviridis	500-2000m	100m
Sulawesi Hawk-Cuckoo	Cuculus crassirostris	250-1250m	150m
Satanic Nightjar	Eurostopodus diabolicus	125-250m	250-275m
Sulawesi Pygmy Kingfisher	Ceyx fallax	100-1000m	30m
Ashy Woodpecker	Mulleripicus fulvus	250-2250m	10m
Red-bellied Pitta	Pitta erythrogaster	125-1000m	10m
Red-backed Thrush	Zoothera erythronota	250-1000m	60m
Rusty-bellied Fantail	Rhipidura teysmanni	600-2500m	50m
Crimson-crowned Flowerpecker	Dicaeum nehrkomi	700-2600m	200-300m

The occurrence on Buton of the Crimson-crowned Flowerpecker, at elevations of 200-300 m was unexpected as this species is usually found only above 700 m on the mainland and little land exists on Buton above this altitude. This species is, however, extremely localised and uncommon on Buton, and probably represents a declining relict population. The Greyheaded Imperial Pigeon has also been found at considerably lower elevations than on the mainland, although a recent study of Rawa Aopa Watumohai National Park found this species at an altitude of only 50 m (Wardill, 1995). Further work needs to be done on the lower latitudinal limits of birds on Buton, especially on some of the endemic species. The occurrence on Buton of other species restricted to 'montane' areas can not be ruled out given the above findings.

# 10: BREEDING ACTIVITY RECORDED DURING 1996.

Notes were kept during 1995 and 1996 on breeding activities noted during the various expeditions, using the criteria established by the British Trust for Ornithology. Very little information is currently available on the breeding activities and seasonality of many Sulawesi species and it is hoped that the project may be able to provide some useful data. Wherever possible data has also been collected on the type of nests and nest sites used.

The following criteria were used:

• Bird apparently holding a territory.

- Courtship and display; or anxiety call/agitated behaviour of adults indicating the presence of young or a nest.
- Brood patch on trapped birds.

• Adult visiting probable nest site.

- Nest building (including excavating nest hole).
- Distraction display or injury feigning.
- Used nest found.
- Recently fledged young.

Adult carrying faecal sac or food.

- Adult entering or leaving nest site in circumstances indicating occupied nest (including colonies).
- · Nest with eggs found, or bird sitting but not disturbed, or eggshells found near nest.
- Nest with young; or downy young of ducks, gamebirds, waders and other nidifuguos species.

A total of 93 records of breeding activity were made during 1996, involving a total of 55 different species. This compares favourably with the 19 records made during the 1995 Bird Survey, involving only 15 different species.

Significant records for 1996 include the Yellow-crested Cockatoo nest, the immature Small Sparrowhawk and the immature Milky Stork. From the scant records it seems evident that a number of small passerine species breed during the drier months from June to November, with records for sunbirds, flowerpeckers and white-eyes occurring throughout this period. Immature and sub-adult munias were also observed throughout this period and this reflects the availability of seeds, particularly rice, during the drier months. Species dependant on fruit, mainly figs, seem to breed later in the dry season (September to November), when fruiting trees are more numerous. Most raptor nests found involved species which specialised in catching fish. No nests were found for forest dependent species although immatures were noted throughout 1996. A list of all breeding records made during 1996 can be found in Appendix 3.

# 11: POSSIBLE UNDESCRIBED TAXON AND INCIDENTAL OBSERVATIONS

## 11.1: POSSIBLE UNDESCRIBED SUB-SPECIES

During the 1996 surveys a small number of birds were observed which did not appear to match the descriptions available in the literature. The differences in some of these birds are extremely marked and it is possible that they represent undescribed races or sub-species. Field descriptions were made of all birds which appeared to differ from the existing literature, but more work needs to be done on this during 1997.

# JERDON'S BAZA Aviceda jerdoni

A pair of Bazas were observed for some 20 minutes in the large shade trees of a mature cashew nut plantation on the 6/8/96. The description taken below was made by the author and 5 other members of the team. Both birds were observed at distances of 5-30 metres, using 8 x 40 binoculars and a 20-40 x telescope.

Size c.45 cm. Male - head grey including crown as far back as the crest; crest long, black in colour. Nape to mantle brown, streaked black. Back and wings greyish-brown. Uppertail brown with two broad black bands, terminal band white. Chestnut brown breast with no markings; chin and throat browner than breast with dark grey mesial throat stripe. Mesial throat strip edged white. Distinct division between throat and breast. Belly heavily barred white and chestnut; bars continue onto thighs. Ventral area white. Undertail white with single grey band near tip, terminal band white. Underwing; flight feathers greyish-white, underwing-coverts white barred chestnut. The second bird was slightly larger - presumably the female - with a brown head and dark brown 'mask'. Crown brown, crest black; nape and mantle chestnut-brown with black streaks. Back and wings greyish-brown, slightly darker than male. Uppertail brown with black sub-terminal band. Underparts as male, but division between throat and breast not as clear. Mesial throat stripe black, only narrowly edged white. Underwing as male.

# ZEBRA DOVE SPECIES Geopelia?

Two unusually coloured Zebra Dove were first reported from Siumpu Island SW of Buton on the 7/8/96. A number of individuals were subsequently seen over the next 4 months with a maximum count of 3 birds being made on the 7/11/96. Two birds were observed on the 10/9/96 carrying nesting material into a small isloated tree in an area of open scrubby grassland. The nest was not found but the pair were seen in the same tree on the 7/11/96 and the 13/11/96. The ordinary Zebra Dove G. striata was also found on the island; a pair were sighted within 200 m of the possible nesting tree of the unidentified dove. Birds differed markedly from G. striata in having a broad bright yellow orbital ring (not blue as in G. striata), and a narrow, but conspicuous, white stripe running down the neck from behind the eye. According to Goodwin (1967) all races of G. striata have a blue eye ring, as does G. s. maugei which is often regarded as a distinct species, the Timor Zebra Dove. The latter has been recorded from Tomea in the Tukangbesi (probably introduced).

The following is a description made by the author and three other team members on the 10/9/96 of a pair of birds which were watched for some 10-15 minutes using an 8 x 30 pair

10/9/96 of a pair of birds which were watched for some 10-15 minutes using an 8 x 30 pair of binoculars, and a 20x telescope at distances of 15-30 feet. Bright clear day. General appearance very similar to G. striata, but slightly larger and more brown in colour. Head grey, paler more white on forehead and pale brownish-white on crown; iris pale blue, beak

black. Broad bright yellow orbital ring around eye, with narrow very distinct white stripe from behind the eye; white strip was c.1.5 cm long and curved slightly down the neck. Hindneck, back, rump and wings greyish-brown. Hindneck narrowly barred black; feathers on wing-coverts and back faintly edged black giving a scally or barred appearance. Flight feathers rufous brown. Chin grey; neck, chest and flanks buffish white with distinct black bars. Middle of breast buff becoming whitish on lower belly. Tail long and narrow, grey on underside with black base; uppertail grey with brown wash. Feet blackish, with reddish tinge to rear.

BLACK-NAPED FRUIT-DOVE Ptilinopus melanospila

No mention is made in the literature of the complete lack of red or yellow colouration on the ventral area of the females found on Buton.

SULAWESI PYGMY KINGFISHER Ceyx fallax

On the 24/9/96 a single bird was observed in a wooded gully beside a dry river-bed. The bird was seen clearly by 4 members of the group at distances of only 2-3 metres. The general description is similar to the nominate form *C. f. fallax*, but the bird differed in appearing to have no black and blue colouration on the crown and forehead. The bird was observed from the back and from the side, and the colouration of the crown should have been apparent. A second bird observed at the same location (presumably the same bird) on the 17/11/96 did not have any blue or black on the crown, nor did a bird observed in Square 76 on the 12/11/96. The only other sub-species *C. f. sangirensis* from Sangihe Island (between Sulawesi and the Philippines), has larger and more lustrous blue bars on the crown (Fry et al., 1992).

# RED-BACKED THRUSH Zoothera erythronota

A single bird was observed by the author on the 26/9/96, for some 15-20 minutes at a distance of 2-5 metres at the Cockatoo site outside of Bau-Bau. The following description was made which differs particularly in the facial colouration.

Upperparts from crown to uppertail-coverts chestnut; slightly darker and browner on the crown. Wings black with 2 rows of white spots on the wing-coverts appearing as 2 white bars. Face all black with greyish-white area behind the eye, white ear-coverts and a short white malar stripe. Chin, throat and upper breast black; rest of underparts white with heavy black spots on lower breast, spots on flanks and thighs finer more brownish-black. Tail black. Beak pale horn colour, legs pinkish; iris black. A second bird was later observed in the company of this bird and appeared duller more brownish chestnut above.

BROWN-THROATED SUNBIRD Anthrepes malacebsis

Three males were observed on Siumpu Island on the 13/11/96 differing significantly from the males normally encountered on neighbouring Buton. Siumpu birds had bright maroon backs and greater-coverts, not brown as in the Buton birds.

#### 11.2: INCIDENTAL NOTES AND OBSERVATIONS

During 1996 a number of incidental observations were made for species which have not been covered in any of the previous sections of this report. A number of these are felt to be important enough to warrant some mention in this report.

Woolly-necked Stork Ciconia episcopus: On the 24/9/96 an adult was observed catching seas snakes on the mud-flats in Square 74. During a 5 minute period the bird was seen to catch and eat at least 4 small white/pale yellow and black banded Sea Crakes of the genus Laticauda. The stork seemed to be extremely wary of the sea snakes and great care was taken in handling and killing the snakes before they were swallowed. Each snake was seized in the middle, and was held in the tip of the bill while being vigorously and repeatedly thrashed from side to side. One two occasions the sea snake was released before the process was repeated. Similar behaviour was noted at the same site on the 5/11/96 when 2 birds were observed catching seas snakes. The only reference to this behaviour is a brief comment in Hancock et al. (1992), which states "In Sulawesi they [Woolly-necked Storks] are said to eat sea snakes". The behaviour has also been observed on Hoga Island, but involved a Great-billed Heron.

Blue-backed Parrot Tanygnathus sumatranus: An unusually coloured bird was seen on the 15/7/96 in forest near La Bundo-Bundo, Square 45. General plumage similar to ordinary Blue-backed Parrot, but differed in having a brownish wash on the breast and neck, plus rufous-brown undertail feathers; the individual had a white bill and iris. The bird was seen clearly in the canopy of a large tree in the company of a pair of Great-billed Parrots. Forshaw describes a similar bird, the Rufous-tailed Parrot Tanygnathus heterurus which is only known from the type specimen (Forshaw, 1989). According to Forshaw this specimen probably represent an aberrant form of T. sumatranus.

Collared Kingfisher Halcyon chloris: A number of individuals were recorded with aberrant plumage. Most individuals differed in the amount and extent of black and greenish-blue on the head; black extending up from mask onto the crown. One bird at Kabowa Bridge, Square 41, had a completely black crown and forehead with an area of white on the hindneck. A bird seen on Hoga Island in the Tukangbesi had a small area of white in the centre of the crown surrounded by black.

#### 12: CONCLUSIONS

Prior to the work carried out by volunteers of Operation Wallacea little interest had been shown in the large islands at the southern tip of the south east peninsula of Sulawesi. This is an extremely remote part of Indonesia which has attracted few visitors and even fewer scientists in recent years. Data collected during the two years of field work (a total of 11 months field work) has shown that the avifauna of Buton Island is diverse, despite the absence of montane communities on the island. The island has been found to have in excess of 230 bird species, including over 50 Sulawesi endemics. The latter includes virtually all of the Sulawesi endemics restricted to lowland habitats, with a few notable exceptions, and a number of endemics which inhabit lower montane environments. Significant populations of many species can be found on Buton, and the island may prove important for the long term survival of certain species. Around 19 threatened and near-threatened species have been recorded from Buton and further work is urgently needed to establish the status of many of these birds. In particular further work needs to be carried out on the Milky Stork, Maleo, Yellow-crested Cockatoo, and the Red-Knobbed Hornbill, as Buton may hold important populations of these birds.

In recent years Buton has been designated as a transmigration site and a number of settlements have already been created in the south and east of the island. These settlements have been responsible for the destruction of large tracts of forest and this process will undoubtedly continue during the next few years. The selection of transmigration sites is very haphazard and a number of sites have been established in, or adjacent to, existing protected areas. Substantial areas of the proposed National Park in the north of the island have already been cleared, and it is uncertain how much forest will survive before the National Park is finally designated. The Operation has, however, been instrumental in stimulating local awareness and interest in conservation issues, and action has already been taken at a local level in a number of locations. Local interest is crucial, as many important areas of forest have only survived due to the actions of local people and officials at village level. Interest show by the officials of the Bupati of southern Buton (local governor), and by the regional Governor of South East Sulawesi, have been especially encouraging, and it is hoped that this interest will result in further actions being taken. The local Bupati has, in particular, been quick to identify the potential benefits from small scale ecotourism and he has been largely responsible for many of the initiatives undertaken to date. Already measures are being implemented to protect the Lake Togomotonu environs and the critically important area around the Maleo breeding sites near Maligano. The work carried out by Operation Wallacea has identified a number of important sites around the island and it is hoped that with the help of local people and officials these areas will be given full protection in the near future. It is also hoped that the results generated by Operation Wallacea will help stimulate further field work in this remote region of Sulawesi, and will provide local people with the incentive to conserve their natural environment.

ommon Name	Systematic Name	Sulawesi	Banggal	Sula	Sangihe
common Name					& Talaut
					1
Sulawesi Serpent-Eagle	Spilomis rufipectus	*	•	*	*
Sulawesi Goshawk	Accipiter griseiceps	*			<u> </u>
Spot-tailed Goshawk	Accipiter trinotatus	*	ļ		<u> </u>
Small Sparrowhawk	Accipiter nanus	*			<u> </u>
/inous-breasted Sparrowhawk	Accipiter rhodogaster	*	•	•	1
Sulawesi Hawk-Eagle	Spizaetus lanceolatus	*	*	*	
Sula Scrubfowl	Megapodius bernsteinii		*	*	<u> </u>
//aleo	Macrocephalon maleo	•			
Snoring Rail	Aramidopsis plateni				
Bald-faced Rail	Gymnocrex rosenbergii	*	*		<u> </u>
sabelline Waterhen	Amauromis isabellina	*			
Sulawesi Woodcock	Scolopax celebensis	*			
Red-eared Fruit-Dove	Ptilinopus fischeri	•			
Maroon-chinned Fruit-Dove	Ptilinopus subgularis	*	7	•	
Waroon-chinned Fruit-Dove White-bellied Imperial Pigeon	Ducula forsteni	*		•	
	Ducula radiata	*			
Grey-headed Imperial Pigeon	Ducula luctuosa	*	*	*	
White Imperial Pigeon	Cryptophaps poecilorrhoa	*			<u> </u>
Sombre Pigeon		*	•	•	<del> </del>
White-faced Cuckoo-Dove	Turacoena manadensis	•		<u>!</u>	
Sulawesi Ground-Dove	Gallicolumba tristigmata				*
Red-and-Blue Lory	Eos histrio	+		<u> </u>	1
Ornate Lorikeet	Trichoglossus ornatus		-		
Yellow-and-Green Lorikeet	Trichoglossus flavovirides			<u> </u>	<u> </u>
Red-Spotted Racket-tailed Parrot	Prioniturus flavicans	N,C ?	*	<u> </u>	<u> </u>
Golden-mantled Racket-tailed Parrot	Prioniturus platurus	+	1	-	1
Sulawesi Hanging-Parrot	Loriculus stigmatus				1
Sangihe Hanging-Parrot	Loriculus catamene		<u> </u>	· ·	1
Green Hanging-Parrot	Loriculus exilis	*	1	1	<u> </u>
Sulawesi Hawk-Cuckoo	Cuculus crassirostris	*	<u> </u>	<u> </u>	
Black-billed Koel	Eudynamys melanorhyncha	•	*	*	<u> </u>
Fiery-billed Malkoha	Rhamphococcyx calyorhyncha	*		<u> </u>	<u> </u>
Bay Coucal	Centropus celebensis	*			
Sulawesi Owl	Tyto rosenbergii	+	•		*
Minahassa Owi	Tyto inexspectata	N,C		<u> </u>	
Taliabu Masked Owl	Tyto nigrobrunnea			<u> </u>	+
Sulawesi Scops Owl	Otus manadensis	*			
Ochre-bellied Hawk-Owl	Ninox ochracea	*			
· · · · · · · · · · · · · · · · · · ·	Ninox punctulata	•			
Speckled Hawk-Owl	Eurostopodus diabolicus	N,C			
Satanic Nightjar	Caprimulgus celebensis	N.C		•	
Sulawesi Nightjar	Actenoides monachus	*	ĺ		
Blue-headed Wood Kingfisher	Actenoides princeps	*			
Bar-headed Wood Kingfisher	<del> </del>	*		<b>†</b>	Sa
Lilac Kingfisher	Cittura cyanotis		*		
Great-billed Kingfisher	Halcyon melanorhyncha				Та
Talaub Kingfisher	Haicyon enigma	*	1	1	Sa
Sulawesi Pgymy Kingfisher	Ceyx fallax			<del>                                     </del>	1
Purple-bearded Bee-eater	Meropogon forsteni			1	
Purple-winged Roller	Coracias temminckii		<del>                                     </del>	<del>                                     </del>	<del> </del>
Sulawesi Hombill	Penelopides exarhatus			+	<del> </del>
Red-knobbed Hombill	Rhyticeros cassidix	*	-	<del> </del>	+
Sulawesi Pygmy Woodpecker	Dendrocopos temminckii	*	-	<del>                                     </del>	-
Ashy Woodpecker	Mulleripicus fulvus	*	*	<del>  ,</del>	-
Sula Pitta	Pitta dohertyi		-	1	

Common Name	Systematic Name	Sulawesi	Banggai	Sula	Sangihe
					& Talaub
					<u> </u>
Caerulean Cuckoo-Shrike	Coracina temminokii	*			
Pied Cuckoo-Shrike	Coracina bicolor	*			*
White-rumped Cuckoo-Shrike	Coracina leucopygia		ļ.,,,,,		ļ
Pygmy Cuckoo-Shrike	Coracina abbotti	*			
Sula Cicadabird	Coracina sula			•	
Sulawesi Cicadabird	Coracina morio	*			<u> </u>
Sulawesi Pied Triller	Lalage leucopygialis	*	*	*	<u> </u>
Sulawesi Drongo	Dicurus montanus	*			
Piping Crow	Corvus typicus	*			}
Banggai Crow	Corvus unicolor		*		
Sulawesi Babbler	Trichastoma celebense	*			
Malia	Malia grata	*			
Geomalia	Geomalia heinrichi	*			
Great Shortwing	Heinrichia calligyna	*			
Red-backed Thrush	Zoothera erythronota	*	•	*	
Sulawesi Mountain-Thrush	Cataponera turdoides	*			
Sulawesi Leaf-Warbler	Phylloscopus sarasinorum	*			
Henna-tailed Jungle Flycatcher	Rhinomyias colonus	*	*	*	
Rufous-throated Flycatcher	Ficedula rufigula	•			
Lompobattang Flycatcher	Ficedula bonthaina	S			
Slue-fronted Flycatcher	Cyornis hoevelli	C,SE			
Matinan Flycatcher	Cyornis sanfordi	N			
Caerulean Paradise-Flycatcher	Eutrichomymis azurea				Sa
Rusty-bellied Fantail	Rhipidura teysmanni	*		*	
Yellow-flanked Whistler	Hylocitrea bonensis	*			
Maroon-backed Whistler	Coracornis raveni	*			
Sulphur-bellied Whistler	Pachycephala sulfuriventer	*			
vory-backed Woodswallow	Artamus monachus	•	*	*	
Sulawesi Crested Myna	Basilomis celebensis				
Helmeted Myna	Basilomis galeatus		*	•	
White-necked Myna	Streptocitta albicollis	*			
Bare-eyed Myna	Streptocitta albertinae			*	
Fiery-browed Myna	Enodes erythrophris	*			
Finch-billed Myna	Scissirostrum dubium	•	*		
esser Streaked Honeyeater	Myza celebensis	<b>±</b>			
Greater Honeyeater	Myza sarasinorum	*			
Sulawesi Myzomela	Myzomela chloroptera	*			
Elegant Sunbird	Aethopyga duyvenbodei				Sa
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	4			Sa
Crimson-crowned Flowerpecker	Dicaeum nehrkorni	*			
Grey-sided Flowerpecker	Dicaeum celebicum	*	•	*	*
Pale-bellied White-eye	Zosterops consobrinorum	SE			
_emon-throated White-eye	Zosterops anomalus	\$			
Streaky-headed White-eye	Zosterops squamiceps	*			

# APPENDIX 3: BREEDING ACTIVITIES RECORDED DURING 1996

20/6/96

White-necked Myna - group of 10 adults and fledglings, Maligano, Square 18. Piping Crow - 2 adults & 1 fledgling; Square 18.

26/6/96

<u>Pacific Swallow</u> - nest found under overhang of house near Labuana; Square 4. <u>Olive-backed Sunbird</u> - male carrying nesting material into coconut palm; Square 5.

3/7/96

Sulawesi Goshawk - juvenile observed perched in forest tree, Square 18.

9/7/96

White-winged Triller - pair at nest feeding plus brooding 2 downy young; Square 57.

10/7/96

Yellow-crested Cockatoo - 2 birds seen entering nest hole in tree; hole on main trunk some 60 feet up in clump of tree ferns. Site still occupied in November; Square 65. Sulawesi Hornbill - 5 adults in company of 1 immature; Square 65. Scaly-breasted Munia - 4 adults with 1 immature; Square 66.

11/7/96

Osprey - pair copulating; Square 68. Brahminy Kite - pair at nest, nest still occupied in November, Square 68.

12/7/96

Wandering Whistling Duck - mating and pairing displays observed on Lake Togomotonu. Spotted Whistling Duck - adult with 12 fledglings on Lake Ambuau Square 54.

13/7/96

Black-faced Munia - 9 immature birds observed along roadside, Square 47.

14/7/96

Sulawesi Serpent-Eagle - immature, La Bundo-Bundo, Square 44.

Spot-tailed Goshawk - immature in forest tree, La Bundo-Bundo, Square 44.

Hair-crested Drongo - adult sitting on cup shaped nest, 40 feet above a small track. Nest made of fine fibres, very thin in places (see-through), situated in fork of exposed branch; Square 44.

18/7/96

Chestnut Munia - small group of 5 adults and 4 immature; Square 44.

5/8/96

Sulawesi Hawk-Eagle - two immature birds seen flying along side road; Square 66.

6/8/96

Grey-sided Flowerpecker - adults feeding young at nest; Square 73. Pale-bellied White-eye - adult feeding young at nest; Square 73.

Black Sunbird - female carrying nesting material; Square 73.

8/8/96

Ashy Woodpecker - pair observed at newly excavated nest hole; Square 66.

14/8/96

<u>Slender-billed Cuckoo-Dove</u> - pair performing courtship display. Male perched beside female, whole body raised and lowered repeatedly, nape and back feathers raised, with repeated soft cooing; Square 68.

19/8/96

Brown-throated Sunbird - female at nest, a hanging ball of grass and leaves in tall bamboo; Square 65.

20/8/96

Asian Glossy Starling - colony collecting nesting material (strips of dried palm fronds and grass), plus building nests in palm trees at bases of palm fronds; Square 49.

Chestnut Munia - mixed flock of >60 adults, sub-adults and immature birds; Square 49.

21/8/96

<u>Woolly-necked Stork</u> - pair searching for possible nest site above forest canopy; Square 50. <u>Collared Kingfisher</u> - adult feeding young in arboreal termitaria, some 30 feet up forest tree; Square 49.

27/8/96

Common Kingfisher - adult leaving nest hole in soil of upturned tree roots; Square 83.

28/8/96

Brown-throated Sunbird - pair taking food to nest (scruffy ball of fibres and leaves 20m up in forest canopy; Square 13.

Pied Cuckoo-Shrike - pair observed copulating; Square 13.

<u>Pied Bushchat</u> - male carrying food observed entering hole in dead tree; Square 13.

29/8/96

Golden-bellied Gerygone - adult with food at nest in mangrove overhanging water, about 3 metres up; fine pear shaped ball made of fine grass and cobwebs - latter plus grass trailing down beneath the nest; Square 8.

Golden-bellied Gerygone - male displaying to female; throat fluffed out while dancing around the females in tight circles, making a constant faint whistle; Square 8.

<u>Lemon-bellied White-eye</u> - adult incubating in coconut palm; cup of fine twigs and cobwebs just beneath an old palm frond; Square 8.

Lemon-bellied White-eye - nest found in mangrove, 2-3 metres up; Square 8.

2/9/96

Citrine Flycatcher - pair feeding fledgling; Square 66.

Black-naped Oriole - adult carrying nesting material (strips of dried palm leaves); Square 66. Hair-crested Drongo - pair at nest in canopy, 30-40 feet up; Square 66.

4/9/96

<u>Pink-headed Imperial Pigeon</u> - adult building nest in canopy of tall tree; Square 55. <u>Sulawesi Hanging-Parrot</u> - female investigating nest tree cavities; Square 55.

8/9/96

Small Sparrowhawk - immature observed being chased by Sulawesi Goshawk; Square 65.

10/9/96

Zebra Dove Species - pair carrying nesting material into isolated tree; Siumpu Island.

12/9/96

Maleo - 4 active breeding sites found; all disturbed; Square 13.

Golden-mantled Racket-tailed Parrot - adult entering and not leaving hole in a clump of tree ferns situated about 50 feet up forest tree; Square 13.

17/9/96

Ruddy Kingfisher - pair observed excavating nest hole in arboreal termitaria on an old tree stump on the edge of a small creek in mangrove; Square 33.

18/9/96

Maleo - pair digging at nest site; Square 13.

Ornate Lory - 2 birds seen entering hole in horizontal branch of dead tree; Square 18.

19/9/96

Maleo - 4 pairs digging at 5th breeding site; Square 13.

Brown-throated Sunbird - pair at nest; small elongated sphere of leaves, grass and cobwebs, situated beneath large leaf at top of small tree; Square 13.

21/9/96

Pied Cuckoo-Shrike - male at nest; Square 55.

White Imperial Pigeon - bird carrying nesting material; Square 55.

22/9/96

Citrine Flycatcher - adult feeding fledgling; Square 66.

Black-naped Fruit-Dove - female on nest; small untidy platform 15-20 feet up on bare branch next to road; Square 66.

23/9/96

White-bellied Sea-Eagle - adult at nest; huge structure of branches situated some 60 feet up a tree on a ridge top, about 0.5 km from the sea; Square 74.

24/9/96

Hair-crested Drongo - adult incubating 2 young and 1 egg; nest situated 20 feet up above path. Bird would quietly leave the nest when approached, returning once disturbance was over. Flimsy cup shaped nest of fine twigs in fork of tree; Square 60.

26/9/96

Red-Knobbed Hornbill - male feeding young at nest hole; situated some 70 feet above ground in same tree as Yellow-crested Cockatoo nest; Square 65.

Olive-backed Sunbird - pair at nest; in dense thicket close to road; Square 67.

14/10/96

Citrine Flycatcher - adult feeding fledgling, Square 65.

16/10/96

Finch-billed Myna - nesting tree with active breeding colony in dead isolated tree; Square 54.

17/10/96

White Imperial Pigeon - pair building nest in canopy of isolated tree on edge of forest, Square 54.

Malaysian Plover - pair with 3 downy chicks on undisturbed beach; Square 55.

18/10/96

Ashy Woodpecker - 2 males drumming on dead tree trunk; Lake Ambuau. White-breasted Woodswallow - untidy nest of twigs situated in a dead isolated tree in cultivated field. Total of 9 birds seen at the nest together; Lake Ambuau.

22/10/96

Maleo - 26 birds observed at one breeding site: Square 13.

Black-naped Oriole - single bird carrying nesting material; Square 49.

24/10/96

Pacific Swallow - pair feeding 4 fledglings at fish ponds, Maligano; Square 18.

Hair-crested Drongo - pair feeding 2 fledglings; Square 18.

Hair-crested Drongo - adult at nest with at least one chick; Square 18.

Red-Knobbed Hornbill - male feeding young at nest hole in dead tree in forest clearing; Square 18.

Yellow-sided Flowerpecker - adult with 2 fledglings; Square 18.

White-necked Myna - pair at nest hole in dead palm stump; hole 35-40 feet up. One bird entered the hole and did not re-emerge; 2nd bird remained on top of the tree; Square 18. Black-naped Oriole - adult feeding young at nest in small thickly foliaged tree in coconut plantation. Nest, large hanging cup of fine grasses, situated in leaves in outer branch some 30 feet above the ground; Square 23.

Brown-throated Sunbird - pair feeding 2 young; Square 23.

29/10/96

Lemon-bellied White-eye - mist-netted bird with brood patch; Square 18.

1/11/96

Lesser Fishing-Eagle - pair at nest in huge tree in tiny isolated forest patch adjacent to Lake Ambuau. Huge untidy structure of branches in tree fork some 50-60 feet above ground. Sulawesi Hanging-Parrot - pair feeding 2 fledglings; Lake Ambuau Square 54.

5/11/96

White-breasted Woodswallow - 3 birds constructing a nest in top of small cashew nut plant, 1.5 metres up adjacent to road; Square 78.

6/11/96

<u>Sulawesi Babbler</u> - mist-netted bird with well developed brood patch; Square 65. Asian Glossy Starling - 3 adults with immature; Square 65.

7/11/96

White Imperial Pigeon - pair at nest coconut palm; small platform of twigs; Siumpu Island.

11/11/96

White-breasted Woodswallow - nest at top of dead tree trunk, some 40-50 feet up. Single bird observed incubating with 3 attendants. Purple-winged Roller landed briefly on nest but driven off by 4 White-breasted Woodswallows; Square 66.

<u>Ivory-backed Woodswallow</u> - untidy nest of twigs, moss etc. in fork of branch in bare tree about 30 feet up along side road. One bird sitting with 2 perched nearby; Square 66.

13/11/96

Hair-crested Drongo - small cup shaped nest of twigs and fibres in fork of branch 15 feet up tree; Siumpu Island.

14/11/96

Pied Bushchat - nesting in the top of small dead palm tree; Snake Island. Finch-billed Myna - breeding colony (>100 birds) in dead tree adjacent to road in forest; Square 44.

15/11/96

Blue-backed Parrot - adult feeding one young, La Bundo-Bundo Square 44.

17/11/96

Milky Stork - immature seen in company of 4 adults; Square 74.

19/11/96

Red Knobbed Hornbill - male at nest hole; Square 18.

Finch-billed Myna - colony at nesting trees; Square 18.

Chestnut Munia - mixed flock of adult, sub-adults and immature birds; Square 18.

# **Additional Breeding Record**

Orange-footed Scrubfowl - Megapodius reinwardt: 17/11/96 adult scrubfowl seen digging at mound close to marine base. The mound was 5-6 feet high by 10-15 feet across and was situated underneath a thicket.

# APPENDIX 4: KENDARI MARSHES, MAINLAND SULAWESI

During the 1996 Bird Surveys most expeditions were able to visit the Kendari Marshes area at the west end of the Kendari Bay, at the end of each trip. The Kendari marshes consist of an extensive area of mangroves and associated brackish marshes, plus adjacent fish ponds and extensive areas of mud-flats. No proper survey of the area was possible, but preliminary results suggest that this site could be of major importance for waders, both resident and

Common Name	Systematic Name
Little Pied Cormorant	Phalacrocomy
Oriental Darter	Phalacrocorax melanoleucos
Great-billed Heron	Anhinga melanogaster Ardea sumatrana
Purple Heron	Ardea purpurea
Great Egret	Egretta alba
Intermediate Egret	Egretta intermedia
Little Egret	Egretta garzetta
Cattle Egret	Bubulcus ibis
Javan Pond-Heron	Ardeola speciosa
Black-Crowned Night-Heron	Nycticorax nycticorax
Cinnamon Bittern	Ixobrychus cinnamomeus
Woolly-necked Stork	Ciconia episcopus
Milky Stork	Mycteria cinerea
Osprey	Pandion haliatetus
Black-Shouldered Kite	Elanus caeruleus
Brahminy Kite	Haliastur indus
Spotted Kestrel	Falco moluccensis
Spotted Whistling Duck	Dendrocygna guttata
Vandering Whistling Duck	Dendrocygna arcuata
Sunda Teal	Anas gibberifrons
acific Black Duck	Anas superciliosa
arred Rail	Gallirallus torquatus
acific Golden Plover	Pluvialis fulva
rey Plover	Pluvialis squatarola
esser Sand-Plover	Charadrius mongolus
harp-tailed Sandpiper	Calidris acuminata
tufous-necked Stint	Calidris ruficollis
road-billed Sandpiper	Limicola falcinellus
ommon Redshank	Tringa totanus
ommon Greenshank	Tringa nebularia
larsh Sandpiper	Tringa stagnatilis
ordmann's Greenshank	Tringa guttifer
erek Sandpiper	Xenus cinereus
rey-tailed Tattler	Heteroscelus brevipes
ommon Sandpiper	Actitis hypoleucos
himbrel	Numenius phaeopus
r Eastern Curlew	Numenius madagascariensis
ack-tailed Godwit	Limosa limosa
hite-headed Stilt	Himantopus leucocephalus
eat-billed Kingfisher	Halcyon melanorhyncha
ollared Kingfisher	Halcyon chloris
cred Kingfisher	Halcyon sancta
mmon Kingfisher	Alcedo atthis

migrant. Some 70 species were recorded during the brief surveys including four threatened and near-threatened species. Of particular interest is the presence of a small population of Milky Storks (around 20 birds), which appear to be resident. Sizeable concentrations of

herons, egrets, pond-herons and other waterbirds were present throughout the survey period, and the mangroves were also utilised by a number of species for roosting. Between late August and November significant numbers of waders were present; flocks of several hundred waders were commonly observed in the late afternoon. The whole area is under pressure from various human activities, including clearance for fish ponds and building, and the future of the area is in doubt without some form of protection. Studies of the area are urgently needed to determine the importance of the site for waterbirds and for migrant waders. The University of Kendari is situated adjacent to the site and their participation would be particularly important.

# APPENDIX 5: CHECKLIST OF SPECIES RECORDED FROM HOGA

Hoga Island in the Tukangbesi was visited on a regular basis throughout the duration of the 1996 expeditions; most expeditions visiting the island for a day and a half during the middle of the trip. Little recent information is available on the avifauna of the Tukangbesi Islands the last studies were made at the turn of the century (White & Bruce, 1986). A fairly marked discontinuity exists between Buton and the Tukangbesi Islands. The latter islands lie only c.25 km off the SE coast of Buton, but only one Sulawesi endemic (Grey-sided Flowerpecker Dicaeum celebicum) appears to have reached this small chain of islands. In addition two species (Pacific Baza Aviceda subcristata and Island Monarch Monarcha cinerascens) which are distinctly Australisian and Moluccan in origin do not reach Buton, but are present in the Tukangbesi.

Although not rich, the avifauna of Hoga Island includes a number of interesting species, including at least 4 species which are either difficult to see or do not occur on Buton. The limited number of species recorded from the island reflects the limited range of habitats available and the very small size of the island (c.2 square km). Hoga is a low lying coral island which is covered for the most part in thick scrub and coconut palms, with small patches of scrubby forest. Fig trees are abundant on the island and help explain why many fruit eating species are present. At low tide extensive mud-flats are exposed which attracted large numbers of waders in October and November. The interior of Hoga is practically impenetrable due to the thick undergrowth and the exceptionally rocky nature of the island. The island is thought to support a fairly large population of Orange-footed Scrubfowl, which are known to be resident on the island; 4 breeding mounds were located and a maximum count of 25 birds was made during one visit in October. Both Malaysian Plover and Beach Thick-Knee are resident on the island. A number of small island specialists can be found on the island on occasion, including Blue-tailed Imperial Pigeon and Great-billed Parrot. Interesting migrants recorded from the island include 2 immature Brown Shrikes and a Gray's Grasshopper-Warbler which was caught in a mist-net in October.

Interviews with local people on the nearby island of Wangiwangi (the largest island in the Tukangbesi) were carried out in late November 1996, during a brief wait at Wanci. According to local people there are numerous degraded forest patches remaining on the island, which hold a diverse avifauna. A number of local people were adamant that the Hooded Pitta *Pitta sordida* was fairly common on the island. This species is only known from N Sulawesi (Lambert, 1996); unconfirmed sightings were made of this species in July 1996 at the N end of Buton.

Common Name	Systematic Name	Recorded	Recorded
		1995	1996
i 1) ocean Crisatobird	T unto print		
Lesser Frigatebird	Fregata ariel		
Brown Booby	Sula leucogaster		
Great-billed Heron	Ardea sumatrana		· · · · · · · · · · · · · · · · · · ·
Little Egret	Egretta garzetta	•	*
Pacific Reef Heron	Egretta sacra	*	*
Osprey	Pandion haliaetus	*	· · · · · · · · · · · · · · · · · · ·
Pacific Baza	Aviceda subcristata	•	*
Pacific Golden Plover	Pluvialis fulva	*	*
Grey Plover	Pluvialis squatarola	*	+
Greater Sand-Plover	Charadrius leschenaultii	*	*
Lesser Sand-Plover	Charadrius mongolus	*	+
Malaysian Plover	Charadrius peronii	*	*
Ruddy Turnstone	Arenaria interpres	*	*
Rufous-necked Stint	Calidris ruficollis	*	•
Common Redshank	Tringa totanus	*	*
Common Greenshank	Tringa nebularia	*	*
Marsh Sandpiper	Tringa stagnatilis		*
Common Sandpiper	Actitis hypoleucos	*	*
Grey-tailed Tattler	Heteroscelus brevipes	*	*
Whimbrel	Numenius phaeopus	*	+
Eurasian Curlew	Numenius arquata	•	
Far Eastern Curlew	Numenius madagascariensis	*	
Bar-tailed Godwit	Limosa lapponica	*	······································
Beach Thick-Knee	Esacus magnirostris	•	*
Whiskered Tern	Chlidonias hybridus	*	•
Common Tern	Sterna hirundo	*	*
Black-naped Tern	Sterna sumatrana		*
ittle Tern	Sterna albifrons		*
Great Creasted Tern	Sterna bergii	•	•
esser Crested Term			
Orange-footed Scrubfowl	Sterna bengalensis Megapodius reinwardt		•
Barred Rail			<u> </u>
	Gallirallus torquatus		-
Spotted Dove	Streptopelia chinensis		-
Green-winged Pigeon	Chalcophaps indica		*
Stephen's Dove	Chalcophaps stephani	*	
Pink-necked Green Pigeon	Treron vernans	*	*
Grey-Checked Green Pigeon	Treron griseicauda		*
Black-naped Fruit-Dove	Ptilinopus melanospila	*	+
Green Imperial Pigeon	Ducula aenea	*	······································
Ilue-tailed Imperial Pigeon	Ducula concinna		*
Great-billed Parrot	Tanygnathus megalorynchos	•	
Priental Cuckoo	Cuculus saturatus	+	`
Channel-billed Cuckoo	Scythrops novaehollandiae	-	*
Great-eared Nightjar	Eurostopodus macrotis	*	*

Common Name	Systematic Name	Recorded	Recorded
		1995	
		1000	1996
Moluccan Swiftlet	Aerodramus infuscatus		
Great-billed Kingfisher	Halcyon melanorhyncha		
Sacred Kingfisher	Haicyon sancta		
Collared Kingfisher	Halcyon chloris	•	
Common Kingfisher	Alcedo catthis		
Dollarbird	Eurystomus orientalis	*	*
Pacific Swallow	Hirundo tahitica		
White-winged Triller	Lalage sueurii		·
Hair-crested Drongo	Dicrurus hottentottus		*
Black-naped Oriole	Oriolus chinensis		*
Slender-billed Crow	Corvus enca		
Gray's Grasshopper-Warbler	Locustella fasciolata		•
Asian Brown Flycatcher	Muscicapa latirostris		
Grey-streaked Flycatcher	Muscicapa griseisticta	•	
sland Monarch	Monarcha cinerascens	-	•
/ellow Wagtail	Motacilla flava		
Grey Wagtail	Motacilla cinerea	<del></del>	
White-breasted Woodswallow	Artamus leucorynchus	+	•
rown Shrike	Lanius cristatus		
hort-tailed Glossy Starling	Apalonis minor		
rey-sided Flowerpecker	Dicaeum celebicum		*
live-backed Sunbird	Nectarina jugularis	-	
lack-faced Munia	Lonchura molucca		

#### APPENDIX 6: ANNOTATED CHECKLIST OF OCEANIC SPECIES

Operation Wallacea expeditions have not been designed to include surveys of seabirds as this falls largely out-side the scope of the project. Little knowledge exists, however, on the status of seabirds in this area and some mention should be made were applicable. The following notes are taken mainly from the authors own notes and from a report by Clive Viney compiled in November 1995.

During the early months of the 1996 expeditions (between June and mid-August), few seabirds were seen with the exception of small numbers of Frigatebirds and Terns; on some ferry trips between Kendari and Buton only a handful of seabirds were noted. Also during this period voyages to Hoga were remarkable for their almost complete lack of seabirds away from the islands. A dramatic change occurred in late August when large numbers of terns and other pelagic species were noted; especially in the straits between mainland Sulawesi, Wowoni Island and the north end of Buton Island; and around the small rocky islets along the coast of Muna just south of Raha.

Streaked Shearwater Calonectris leucomelas: Single bird seen flying low over the water on the 24/6/96 between Raha and Maligano; another bird seen from the Wanci pier on Wangiwangi Island, Tukangbesi, on the 10/8/96.

Christmas Island Frigatebird Fregata andrewsi: 4 birds seen on the 24/6/96 between Raha and Maligano; just within Square 18. See chapter 6 for details.

**Greater Frigatebird** *Fregata minor*: Small numbers of this species were present throughout the 1996 Expeditions. 1 or 2 occasionally seen among F.areil.

**Lesser Frigatebird** *Fregata ariel*: By far the commonest sea bird during the early months - June to early September. Large concentrations seen at the north end of Buton, plus between Muna and Buton south of Raha. Several hundred, 250-400, recorded on the 10/11/96 south of Raha.

Little Black Cormorant *Phalacrocorax sulcirostris*: Not recorded during any sea voyages during 1996; around 30 birds seen off Square 74 in early August. In 1995 a colony of more than 20 were seen on a small islet in the Buton Strait on the 6 November.

**Little Pied Cormorant** *Phalacrocorax melanoleucos*: Large colony, 50-80 birds, seen on small islet south of Raha on the 13/10/96; a smaller colony of at least 40 birds were seen on the same islet on the 10/11/96.

**Red-footed Booby** Sula sula: Small numbers recorded en route to Hoga and Kendari in 1995. Small groups noted between Buton and the Tukangbesi Islands between September and November; nearly all groups noted were heading north. On the 21/10/96, 59 adults and 2 immatures were observed en route to Lasalimu from Hoga.

**Brown Booby** Sula leucogaster: Several birds seen on route to Kendari in November 1995. Single bird seen near Maligano on the 24/6/96. Several seen during various trips to Hoga Island.

Milky Stork Mycteria cinerea: 4 birds seen flying south along the steep mountainous coastline of the Sulawesi mainland opposite Wowoni Island.

**Brahminy Kite** *Haliastur indus*: Pairs or single birds regularly seen along the coastline between mainland Sulawesi and Wowoni, and in the straits near Bau-Bau.

White-bellied Sea-Eagle - Haliaeetus lecogaster: As the last species but more numerous.

Grey Phalarope *Phalaropus fulicaria*: Recorded in 1995 when 3 tight groups (14, 8 & 3 birds) in winter-plumage were seen en route to Hoga on the 16/11/95 (Viney, 1995). This species has not been previously recorded from Wallacea.

Red-necked Phalarope Phalaropes lobatus: Numerous groups seen from early "August onwards in the straits between Muna and Buton; group sizes varied between 5-c.50 birds. All groups observed were heading south. Fewer groups were noted on route to Hoga; all were heading south-east.

Pomarine Skua Stercorarius pomarinus: 2 birds noted on the 16/11/96 en route to Hoga. In 1996 a single bird was seen en route to Hoga in early October.

Whiskered Tern *Childonias hybridus*: Over a hundred birds were seen on a fishing raft close to Hoga on the 16/11/95. Smaller number were observed around Hoga in late 1996.

White-winged Tern Chlidonias leucopterus: Several hundred noted in the straits between Wowoni and Buton between mid-August and late November. Always in the company of Sterna fuscata and S. anaethetus.

**Common Tern** *Sterna hiundo*: In November 1995 around 50 birds of the race *S. h. longipennis* were seen on a raft close to Hoga. Small groups of 2-30 birds were observed off Hoga in late 1996 (October-November). Small numbers seen along the Buton coast on 2 occasions.

Black-naped Tern Sterna sumatrana: Small numbers recorded throughout the 1996 survey; rare at the start of the project, but more common between August and November when groups of 10-20 were often seen, particularly around the small islets south of Raha. Bridled Tern Sterna anaethetus: During 1996 absent until August when small numbers appeared. From late August onwards large numbers were observed in the straits between mainland Sulawesi, Wowoni and Buton; several hundred were seen at this location in mixed flocks of S. fuscata and Chlidonias leucopterus in early November.

Sooty Tern Sterna fuscata: None seen in 1996 until October. Hundreds seen in the company of S. anaethetus and Chlidonias leucopterus in early November.

Great Crested Tern Sterna bergii: One of the few terns to be present throughout the expeditions. Small numbers seen along most coasts; larger groups 50-100 birds noted in late October and November.

Lesser Crested Tern Sterna bengalensis: Small numbers seen throughout the expeditions; far less numerous than S.bergii.

**Fairy Tern** *Gygis alba*: Single colony noted in September 1996 on a small rocky islet south of Raha, on Muna. Colony appeared to be breeding in the large mangrove trees; the colony was still present in early November.

# APPENDIX 7: ANNOTATED CHECKLIST OF SELECTED MAMMAL SPECIES RECORDED DURING 1996.

Little data is currently available on the mammals found on Buton Island. The surveys carried out on Buton are not designed to collect data on mammal species, due in the main to a complete lack of expertise on the part of the bird leaders. Notes were only made of unusual observations or regularly encountered species. Numerous small mammals were encountered but could not be identified to species level. Bats are particularly well represented on the island with at least 6 different species having been seen. Small rodents are also well represented including various forest dewelling species. The following is a brief account of some of the species which were identified on Buton during 1996.

# DWARF CUSCUS - Phalanger celbensis

The Dwarf Cuscus is a small animal (head and body only 34 cm) which feeds exclusively on fruit. This species was rarely encountered during the 1996 surveys, probably due to their nocturnal habits. Apart from being considerably smaller than the more numerous Bear Cuscus, Dwarf Cuscus have a black, not dark brown, back.

# BEAR CUSCUS - Phalanger ursinus

The large (head and body 45 cm, tail 55 cm) dark brown Bear Cuscus is fairly common on Buton, where it seems to prefer more open forest especially in the south of the island. Generally encountered singly, although mothers with young were frequently seen throughout the expeditions. Bear Cuscus are slow moving marsupials which are usually found curled up in a ball in the top of an open tree. Occasionally seen eating leaves.

# **BOOTED MACAQUE - Macaque ochreata brunnescens**

By far the most conspicuous large mammal on Buton, being regularly encountered in small noisy groups throughout the island. Found to frequent a wide range of habitats including lowland forest, degraded forest, cultivated areas and scrub; seem to prefer areas with high densities of fig trees. The exact status of the macaque on Buton has not yet been established, although it is currently under investigation. Buton macaques are mostly black in colour, except for older individuals which often show varrying amounts of grey; some individuals are pure white. They are frequently caught for pets, and groups tend to be extremely wary of humans.

# TARSIER SPECIES - Tarsius species

Sulawesi Tarsier are among the world's smallest primates having a head and body length of just 10 cm plus a tail of 20 cm. Tarsiers have enormous eyes which are adapted to their nocturnal life-style. Three species of Tarsier are currently recognised from Sulawesi, but the taxonomic status of the Buton Tarsier is not known. The calls of the latter animals differ markedly from tape recordings of the other three species and it is very likely that the tarsiers on Buton represents an undescribed sub-species or even species. Currently widespread on Buton in almost all forested or wooded areas, including isolated patches, but this species is threatened by continuing deforestation.

# SULAWESI CIVET - Macrogalidia musschenbroeckii

A rare and little known animal which could be more widespread than the few records suggest. A single, presumably young animal, was observed on the 25/9/96 in Square 83 in an area of forest which has now been cleared. The civet was seen well by all members of the

group, and appeared to be unconcerned by the presence of a group of humans. First observed lying quietly underneath an outcrop of coral where it remained for 2-3 minutes, before moving off slowly into the undergrowth and rocks. This is the first record of this species from Buton. The animal seen was mostly black in colour with white stripes on the throat and some white spots on the body; length c.1 m.

# LOWLAND ANOA - Bubalus depressicornis

A widespread and seemingly not uncommon mammal of forested areas. Recent signs of feeding and spoors were regularly encountered, but individuals were rarely seen. Anoa have a well-founded reputation for being aggressive, unpredictable and dangerous. Classified by IUCN as endangered.

#### **RUSA DEER - Cervus timorensis**

This small barking deer has been introduced from Java *C.t.russa*, and is an uncommon animal in areas dominated by grass. This is one of the few mammal species which is regularly hunted on Buton and captive animals are often found in more isolated villages.

#### SULAWESI PIG - Sus celebensis

This wild pig is very common throughout Buton in forests, scrub, plantations and cultivated areas. Sulawesi Wild Pigs cause extensive damage in cultivated areas and cocnut plantations, but are not widely hunted. Usually found in small family groups especially at dusk.

# BARBIRUSA - Babyrousa babyrussa

There are persistant claims that this unique animal occurs or did occur on Buton, although no evidence has been found to support this. A small population may survive in the extensively forested north of the island.

## RED-BELLIED SQUIRREL - Rubrisciurus rubriventer

A common and very widespread squirrrel which was encountered on nearly all surveys in forested areas.

#### MARINE MAMMALS

Marine mammals were occasionally seen during ferry trips or during coastal surveys. Most commonly seen cetaceans include Common Dolphin *Delphinus delphis*, Tropical Spinner Dolphin *Stenella longirostris* and Pilot Whale *Globiocephala* species.

Unidentified Cetacean: Single individual observed off the coast in Square 83 on the 25/9/96. General appearance white or very pale grey with a blunt rounded head and a practically absent low dorsal fin (appeared as a bump). Length c.2 - 2.5 m. Watched repeatedly surfacing every 2 minutes or so, some 70-300 m off shore. Thought to be feeding near to two fishing boats. Description suggests some kind of river dolphin - possibly a pale Irrawaddy Dolphine Oracaella brevirostris.

# APPENDIX 8: Summary Documents of Each Square Surveyed During 1996

Page 68 - 77 Summary Document of 1996 Bird Survey Results

Page 78 - 142 Summary Documents of 1996 Survey Results by Individual Squares

Square		1 4	2	0	13	18 19	9 23	24	28	83	34	41 43	44	45	47	48	49   50	54	55	56	57
COMMON NAME	SYSTEMATIC NAME			-			-	· ·	1	1									H		
1 Little/Red-throated Grebe	Tachybaptus ruficollis			I		-			1	1	+	-	-								
-	Fregata andrewsi		_		-	-	-		+	Ť			_					2	33		
3 Great Frigatebird	Fregata minor		1	+	+	+	-		†	†	+	1	+								
	Fregata ariel			. 6		ď	-		ç	+	-				-						
	Phalacrocorax sulcirostris				+	_	+	1	7	+	+	1	+						-		
6 Little Pied Cormorant	Phalacrocorax melanoleucos				***************************************	_			1	1			-	1000			-				
	Anhinga melanogaster		-		+	-	-		1	$\dagger$	$\dagger$	-	+	-		1	4	-	۲		
	Sula leucogaster									-	+	1	+				-				
	Ardea sumatrana			-	-	-			-	$\dagger$	$\dagger$	+	-	,		1	+	-	-		
10 Purple Heron	Ardea purpurea			Ŀ		Chirteethern prompany.	-		•	-	-	-				+		-			
11 White-faced Heron	Ardea novaehollandiae				+				T	+	+	+	_	-		1		-	2		
12 Great Egret	Egretta alba	-		-	***************************************	-	-		the state of the s	-	+	-	- Advantage			-	-	-	-		
13 Intermediate Egret	Egretta intermedia				l	+			T	+		-	+			1	-				
14 Little Egret	Egretta garzetta nigripes		-				-		-	1	+	-	-		- Comment	-	35	-			
15 Pacific Reef-Egret	Egretta sacra		L		+	+	-		T	+	+	-	1			1	+	1	-	4	
16 Cattle Egret	Bubulcus ibis				-		-		-	+	1				The second second	***************************************	-				
	Ardeola speciosa				_	<u> </u>			T	$\dagger$	+	+	$\downarrow$	,		1		-			
18 Striated Heron	Butorides striatus		-	2	1	¥.			Herdenstein	+	+		-				2	-	-		
	Ixobrychus cinnamomeus		_		1	+			$\dagger$	$\dagger$	+	+	+	4		1	×,0	$\dashv$	-	দ	
20 Black Bittern	xobrychus flavicollis	-			Agenda marga	-			+		+	-	+		- Annual Manager		2		ស		
21 Woolly-necked Stork	Ciconia episcopus		-		-	,	-	ŀ	-	$\dagger$	-	+	$\downarrow$				_		-		
22 Milky Stork	Mycteria cinerea	***************************************		-	┿	-	The state of the s	7	<del> </del>	1	+	1	-	2			7 2	-	ဖ	4	
23 Osprey	Pandon hallaetus		-	+		*	-		-	+		$\dagger$	-	The state of the s				-			
24 Jerdon's Baza	Aviceda lerdoni		1	1	+	+			1	+	+	-	***	9		7	2	-	m		
25 Barred Honey-Buzzard	Pernis celebensis		-		distribution of the last	*	-		-	-		-	~				7				
	Elanus caeruleus		-		*	-	-	1	$\dagger$	1	+	1									
27 Brahminy Kite	Haliastur indus	and and all property lands of the lands	6	~	┿	+			-	-	+	-	- Total				-	7	2		
28 White-bellied Sea-Eagle	Haliaeetus leucogaster				-	+	,		+	7	1	,	7				2	-	က	₽~	
29 Lesser Fish-Eagle	ichthyophaga humilis				-	-	-			+						-	2	-	<b>,-</b> -		
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	Circus spilonotus				-	Telephoto - Income				-			-				-	-		· · · · · · · · · · · · · · · · · · ·	
34 Sulawes Coshawk	Accipiter griseiceps				-	1			$\dagger$	H	ł	1	-		1	+	1	+			
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40 Black Foots	Durastur Indicus											_					-			- Library	
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42 Sulawesi Hawk-Eagle	Spizaetus lanceolatus				_	_	Ţ.	-	1	1			τ-					Line of the line o			-
43 Spotted Kestrel		A	,	-	-	-						-	-	-			_	_			Γ
	Falco severus	<u> </u>	,	T	+		Ī		$\dagger$	1	2 2	_	-				ъ Т				and the last of th
45 Peregrine Falcon	Faico peregrinus		-	-		7					-	1	-								
46 Spotted Whistling-Duck	Dendrocygna guttata		L		+	+	$oxed{F}$		$\dagger$	$\dagger$	+	+	$\downarrow$		1	1	-	_	``		
47 Wandering Whistling-Duck			200 St. (344 Absternance)	-		-				-	+	1	all and a second	2			35	13	35	- Andrewsky	41000
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49 Facilio Black Duck	Anas supercillosa									-	+			4	1	-	1	12	141	~	
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	SYSTEMATIC NAME	Tachybaptus ruficollis	Fregata andrewsi	minor	ariei	Phalacrocorax sulcirostris	Phalacrocorax melanoleucos	Anhinga melanogaster	Sula leucogaster	Ardea sumatrana	urpurea	Ardea novaehollandiae	1Da	Egretta Intermedia	arzetta nigribes	Egretta sacra	8 1018	Ardeola speciosa	Butorides striatus	xobrychus cinnamomeus	xobrychus flavicollis	Ciconia episcopus	Mycteria cinerea	Pandlon haliaetus	Jerdoni	Pernis celebensis	Elanus caeruleus	r indus	Haliaeetus leucogaster	Ichthyophaga humilis	ichthyophaga ichthyaetus	Spilornis rufipectus	Orcus assimilis	Original Splice of the Control of th	Account grisorcops	Accipitat frinchstre	Thanks	Accipiter rhodogaster	hdicus	Ictinaetus malayensis	Heraaetus kienerii	108	nsis	North 8	Falco peregrinus	Dendrocygna guttata	iata		Anas supercillosa	Megapodius cumingli	Management of the same in the
					Fregata ariel	Phalacr	Phalacr	Anhinga	Sula leu	Ardea s	Ardea purpurea	Ardea n	Epretta	Egretta	Egretta	Epretta	Bubulcus ibis	Ardeola	Butoride	bxobrych	kobrych	Clconia	Mycteria	Pandlon	Aviceda jerdoni	Pernis c	Elanus (	Haliastur Indus	Haliaee	chthyop	chthyp	Spilorn	Orcus	Circus	Accinia	Accipite	Accipiter name			lctinaeti	Heraae	Spizaett	Fatco m	Faico severus	Falco pe			Anas gil	Anas su	odegam	T. C. C. C. C.
	COMMON NAME	Little/Red-throated Grebe	Christmas Island Frigatebird	Great Frigatebird	Lesser Frigatebird	Little Black Cormorant	Little Pied Cormorant	Oriental Darter	Вгомп Бообу	Great-billed Heron	Purple Heron	White-faced Heron		Intermediate Egret	And a second paper of papers of the second papers o	Pacific Reef-Egret		Javan Pond-Heron	Striated Heron	Cinnamon Bittern	Black Bittern	Woolly-necked Stork			Jerdon's Daza	Barred Honey-Buzzard	Black-shouldered Kite	Brahminy Kite	28 White-bellied Sea-Eagle	29 Lesser Fish-Eagle	30 Grey-headed Fish-Eagle	Sulawesi Serpent-Cagle	Spotted Marrier	Subsumed Cochant	Chinese Cochowd	Spot-tailed Goshawk	Small Sparrowfrawk	38 Vinous-breasted Sparrowhawk	39 Grey-faced Buzzard	Black Eagle	Rufous-belled Eagle	42 Sulawesi Hawk-Eagle	trel	44 Oriental Hobby	45 Peregrine Falcon	Spotted Whistling-Duck	Wandering Whistling-Duck	Sunda leai	Louis	I abon scrubiow	

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COMMON NAME	SYSTEMATIC NAME			al market		-	-	-				H	-	H			-	+	╁	3	3
53 Red-backed Buttongual	Turnix magnibas	1	+	+	-	1	+	1	-		1	+	-								
	Galliralus philippensis			-				-												-	
55 Barred Rail	Gailirailus forouatus		+	P		_	<u> </u>	-	1		†		1	15					-		
	Gallirallus striatus					r	1	7	-	I			-	<u> </u>			<b>60</b>	_			N
57 Snoring Rail	Aramidopsis plateni	*		$\vdash$	  -	-	+		_		+	,	+	1			1	+	7	1	
58 Isabelline Waterhen	Amaurornis Isabellinus	•	-		1	2	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-	-	-		-	7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		7	-
	Amaurornis pheonicurus		-		4	4		2	1			1	1	4		Ī	<b>-</b>		2	_	
	Porzana pusilla		-				,		-		1	-	-	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		"		4		-
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62 White-browed Crake	Porzana cinerea					The second secon					Ť	+	-	-		-	+		-	-	The state of the s
	Porphyrio porphyrio			-			-		-	I	$\dagger$	-	+	2			1	+	9	_	
64 Common Morhen	Gallinula chloropus		-	_		-	-				T	-	-	c		The state of the s	+		4		
65 Dusky Moorhen	Gallinula tenebrosa			_			-	-			+	-	+	1			+	+	27		
66 Comb-crested Jacana	Irediparra gallinacea			_			-	The state of the s	- And Shadel Street		-	-	A STATE OF THE STA	-	I				25	_	
	Pluvialis fulva		_	_							T	1	-	+	Ţ			+	9	_	
	Pluvialis squatarola					-			4	Tarabadan unga	_		- Contraction of the Contraction			The state of the s	17	-	-	-	
69 Lesser Sand-Plover	Charadrius mongolus			_				_		I	T	-	-				+	+	- -	_	
	Charadrius peronii						Andrea ( Marie )	-	- Control Control		-	-	-	-	***************************************		- Harman managh	- Landerstein Land		-	- Milder
	Arenaria interpres		-							I	T		1				1	+	S		
72 Great Knot	Calidris fenuirostris		_				-	-	Total State Communication of the Communication of t			-						-		-	
73 Sharp-tailed Sandpiper	Calidris acuminata		-								$\dagger$	1	+				-	+		_	
74 Rufous-necked Stint	Calidris ruficollis		-	-			-	-		and I would not be a second	Ť			-				-		Married	
75 Curlew Sandpiper	Calidris ferruginea		-	<u> </u>			1			I	$\dagger$	+	1	1			m		-		
76 Dunlin	Calidris alpina		-			-			-		+	-	-	-			-	-		_	
77 Red-necked Phalarope	Phalaropus lobatus		-	-			<del> </del>	-	-		+	+	+	+			+	+	_		
78 Common Redshank	Tringa totanus			-	-	-	V	Charles of the Control of the Contro			$\dagger$	+	-	-			-	1	-		-
79 Common Greenshank	Tringa nebularia		_	_							t	-	-	-		1	20 1	+	_		
	Tringa guttifer			-			The stillers in large		-	-	-	-	-			+	n	-	-		A Philadillab car blum
81 Marsh Sandpiper	Tringa stagnatilis		-	2				-			$\dagger$	+	+	1		†	+	+	1		
82 Green Sandpiper	Tringa ochropus					1	-thurs beautiful	The state of the s		-		$\frac{\perp}{1}$	-	-			_	$\frac{1}{1}$			1
83 Wood Sandpiper	Tringa glareola			<u> </u>			-			Ī	1	+	1			1	-	+	-		
84 Grey-tailed Tattler	Heteroscelus brevipes		-	***************************************	-		ALTERNATIVE PROPERTY AND ADDRESS AND		-	-	+	-	-	-		1	49	-	4		
85 Common Sandpiper	Actitis hypoleucos		-	4	-	s.		<u> </u>	-		1	+	+	1		+	+	+	-		
86 Whimbrel	Numenius phaeopus	-		-	H		-	and perfect from the restaurant	-		***************************************	-		-		+	۰	2	60		1
	Numenius tahitiensis								-	I	$\frac{1}{1}$	-	+	1			m •	+	-		
88 Far Eastern Curlew	Numenius madagascariensis						-	-			-		-	-	Ī		-	Miles III	+		
90 Beach Thick Green	Gallinago megala	and the same										-	-	-		1	1	+	-		
	Caacus magnifostris		+	+	4		-	_					-	tan	Vishelin annual a	-	the state of the state of	***************************************			
92 Long-legged Pratincole	Silita isabata			- Transport		-															
93 Whiskered Tern	Childonias bubridus		+	1	+	1	+	+				1				-					-
94 White-winged Tern	Chidonias Jeucooterus	and the second s				La Control of the Con	-		],		1	1							-		
95 Gull-billed Tern	Gelochelldon nilotica		-	1	1		1	1	-		1	+	+	_							
96 Common Tern	Sterna hirundo						-	property consumptions of the papers					_	-		-	_		-		
97 Black-naped Tern	Sterna sumatrana			-		1	+	+			$\dagger$	+	+	4		1	+	+			
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99 Little Tern	Sterna albifrons				I		-					1	+	_			+	1			
	Sterna bergil			32	-	7	2		s	-	- Mariana		-				***************************************		***************************************		-to-dermanian.
IVI Lessor Crested Tern	Sterna bengalensis					47	-				-		-	1		1	+	+	-		-
102 Fairy lorn	Gygis alba							-				-		-		-		- Transport	-	***************************************	
	Columba Ilvia		Ð				_				-	-	+	-		T	+	-			
104 Sported Doye	Streptopella chinensis	2	1 8		2	S	2				2	2	9	2	-	2	4	-	11	P	ď
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oo pared Kall	Gallirallus torquatus					1		_	_						-	ŀ			-	+
56 Slaty-breasted Rail	Gallirallus striatus							The state of the s	The same of the same of	-		- Industrial or an	***************************************	-	-	-	-	-	,	-
57 Snoring Rail	Aramidopsis plateni			-	-				1		+	٠	-	+		+			+	+
58 Isabelline Waterhen	Amaurornis isabellinus	*		***************************************	The Paris and Period Spinish		6		+			-	- 6	-	- Training		- Andrewson and an article and an article and article article and article and article article and article and article article article and article article and article article article article and article	-	-	
59 White-breasted Waterhen	Amaurornis pheonicurus			-	H	-		+	+	-	•		7	+	_	-			1	+
60 Baillon's Crake	Porzana pusilla	Managaration	and the same of th	- Indiana	THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS O	The second	***	+	-	-	-			1	+				7	
61 Ruddy-breasted Crake	Porzana fusca		I	-	+		1	+	+	+	-		$\int$	+	+	4			+	+
62 White-browed Crake	Porzana cinerea	-	-	-	The transfer of the same of th	- Company of the Company		-	The second secon	*Plater de la constante de la	-			-	- Control	-	1	Ť	1	+
63 Purple Swamphen	Porphyrio porphyrio	_	1			-			+	+			-	+	+	+				9
64 Common Morhen	Gallinula chloropus		1	Commission of the Control	-	***************************************	-			-			-	+		-			-	4
65 Dusky Moorhen	Gallinula tenebrosa			1	-		1	+	+	+	_			-	+	-			-	-
66 Comb-crested Jacana	redoarra gallinaciaa	-	-	-					-				***************************************	-		-	d'other manager			25
67 Pacific Golden Plover	Pindalie futua		1	+	-	Ī	1	+	1	-	1		-	-						
68 Grev Plover	Divisite entrafactoria	and desired and an artist and artist artist and artist and artist a	-	-	***************************************	The state of the s	-	- Laboratoria		S.	***************************************		A restriction named promise.	waxan u gadayata	-	1			2	21
69 Lesser Sand-Plover	Charadrius monochis			+	1	I		+	-										2	
70 Malaysian Plover	Charadrile paroni	-	-	-	-	- Control of the last of the l		11/11/11		particular to adopt of several	and any Post Charles a committee of		- Chiefer and a state of the st	- Indiana	-					_
71 Ruddy Turnstone	Area of the second			+	+	1			-	-				-				-	S	2
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72 Share tailed Condition	Callura tenuirostris		1	+														-		ĺ
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/4 rurous-necked Stint	Calidris ruficollis										Photo contract of		-		Director and analysis.				4	1
/5 Curlew Sandpiper	Calidris ferruginea			_		L			-	-		I	-	+	+	-		•	+	1
/6 Duniin	Calidris alpina						-		-	-			Hillithernenne	+	The second second	-		1	and the second second	-
77 Red-necked Phalarope	Phalaropus lobatus			-		L		_	-	-			+	+	+	+			+	+
78 Common Redshank	Tringa totanus			-	_			1	unadian.	- Alterdation	-		OF	of Control of Control		- Longer Land	-	- Indiana and a second	+	5
79 Common Greenshank	Tringa nebularia							_	-				2	+	1	1		†	+	\$
80 Nordmann's Greenshank	Tringa guttifer			-			***************************************	-	***************************************	-			+	-thereton de la constitución de	and the second second			-	and the second s	ρ·
81 Marsh Sandpiper	Tringa stagnatilis			_			-		-	-		I	-			_		1	+	+
82 Green Sandpiper	Tringa ochropus							***************************************	-	-			and the same of th	***************************************				-	- Indianated	+
83 Wood Sandpiper	Tringa glareola		H	-	-		_	-	-					1	1	+		-	1	+
84 Grey-tailed Tattler	Heteroscelus brevipes		-		7		-	Threshold and the same of the	torderen and torder	-	-		-	4	-		and the same of the same	and the same of th	1	49
85 Common Sandpiper	Actitis hypoleucos			_	4 45	I		u	1	+	$\prod$		+	١٥	_			1	6	+
86 Whimbret	Numenius phaeopus	-	-	Noder had a consumption of	2		Note and a second	1	_	-	I		J 00	-	(			1	1	•0
87 Bristle-thighed Curlew	Numenius tahitiensis			-	-	I		-	+	+			3	+	t			1	4	7
88 Far Eastern Curlew	Numenius madagascariensis			- Control of the last of the l	-		-	-	***************************************				-	-		-		-	-	
89 Swinhoe's Snipe	Gallinago megala			H	-			+	+	+		Ī	+	+	+			$\dagger$	+	+
90 Beach Thick-Knee	Esacus magnirostris		-			The state of the s	- the section of the			majores spinishitentumbe.			-	-	-		made (4) Andrew	· meta-transaction	-	1
91 Oriental Pratíncole	Glareola maldivarum		-	-	_	L	S		+	_			+	+	+	1		+		+
92 Long-legged Pratincole	Stilta isabella		-			I		- International Property of the Inte	and delighers of the state of t	-		- Constitution of the Cons	-	-		-	- productal programs	+	fellowers	2
93 Whiskered Tern	Chlidonias hybridus								<u> </u>	_	I			+	-	+		$\dagger$	+	+
94 White-winged Tern	Chlidonias leucopterus				-		***************************************	tablement and the second secon		-	The second secon	- Allenanter	+		Prefebration	- Indiana		+	-	
95 Gul-billed Tern	Gelochelidon nilotica											T	-	-				$\dagger$	+	
96 Common Tern	Sterna hirundo								designation or services	White sections with the section of t	and and address of the last		- Chickele Internation	-		-	Applement of the second	-		
97 Black-naped Tern	Sterna sumatrana			_	<u> </u> -				-			T	+	-	-			$\dagger$	1	-
98 Bridled Tern	Sterna anaethetus			THEOREM PROPERTY.	-		the state of the s			-		-		-			Address that the same of	1	and an artist of the last of t	
99 Little Tern	Sterna albifrons				_				+	-	I	T	-	ł	-	-		1		+
100 Great Crested Tern	Sterna bergii		1		-			-			-	-	***************************************	a	-		-	***************************************		-
101 Lesser Crested Tern	Sterna bengalensis			-	L		-	-				T	,	1	+			+	_	75
102 Fairy Tern	Gygis alba							1		parameter and pa				-	Herber		· ·	-	-	7 -
103 Feral Pigeon	Columba livia				_		-	H	-	_			87	+	-			+	+	
104 Spotted Dove	Streptopelia chinensis		-		-			-		6		-	1	٠	۲				-	? ;
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Square			4	n n	2	0	ß.	3	7 67	28 33	34	4	£	44	45	47	48 49	2	2	22	28	ŝ
COMMON NAME	SYSTEMATIC NAME		unanananananananananananananananananana	-	-	-			- Indiana	+	-	-	_	-		+	-	-			Martin Marihauma	_
Slender-billed Cuckoo-Dove	Macropydia amboinensis			- G	╀	a	a	7	6	73	+	۲	-	٥	4	+		+	+			_ -
106 White-faced Cuckoo-Dove	Turaccena manadensis	***************************************		) (	Ŧ	a a	9 (	) (	***************************************	-	_	3 (	_	0 <	- (	1	4	7	6	rs .	a disease primary may be	-
Green-winged Pigeon	Chalconhans indica		-		3 0	,	7	7	-	+	+	7	_	0	۰ م	$\dagger$	9		4	7	3	-
Stephan's Pigeon	Chalcohans stephani	-			1			-	Marria		1	-	1	2	-			1	-		-	1
109 Zebra Dove	Geopelia striata		-	+	-	-				-	+	1	+	_		+	-	1	1	-		
Pink-necked Green Pigeon	Treron vernans		-	7	7	*			-	-	-	-	•	-	ļ			magnification of the contract	1		Aggreed plays reported	_
Grev-cheeked Green Pigeon	Treno oriceicanda	4.	. ;	+	t	+			-	1	+		0	4	2	+		7		=	m	
Maroon-chinned Fruit-Dove	Offinance substitute		÷	<u> </u>	77	C7	0	4		7	-	<u> 26</u>	2		>15		9	8	0 >15	>40		N
Black-naged Fruit-Dove	Difficulty melanopula	·	ľ	•	- 4	+		6	-	+	1	-	-	-			7		_	_		
White-bellied Imperial Piceon	Ducida foretani	-			2 6	2 .	4 6	D	0	71	+	15	-1	20	4		3 14	4	2	× 15	-	
Grauthanded imperiol Disease	Durally radiate	,	+	+	?	+	2,	-	+	-	+	4	_					-	-			
			-	-	+	7	7		Haman and and and	-	-	-		2		_	_					
Close Mind Impedal Discour	Oucula achea	1	$\dagger$	+	+					-	-		_	-						-		-
	L'acuta concinna		-		1	5	ł	-		-	-									ļ		
Fink-fleaded Imperial Pigeon	Ducula rosacea			29	52	>27	႙	26				26		18	22	~	13	6	17	>25	6	6
	Ducula Dicolor	and an included the second	-	4	-	12	1			-								_				
While imperial Pigeon	Oucula luctuosa	,	7	20 7	7	>79	က	24	4	2		4	2	9	9	-	3	-	23	16	2	
Yellow-crested Cockatoo	Cacatua sulphurea	*	-									4	_	6		-	$\vdash$		-	2		٠
Omate Lorikeet	Trichoglossus ornatus		<u>^</u>	>24 6	9	14	×20	4		4		~		14	~	_	•	7	13	ı u	٠	4 6
Yellow-and-Green Lorikeet	Trichoglossus flavoviridis					+			-		L					$\frac{1}{1}$	1	╀	╁	,	4	4
Sulawesi Hanging-Parrot	Loriculus stigmatus	₹		9		_	4	10	_	3		9	12	6	4	-	C.	ļ.	1	a	Ħ	4
Green Hanging-Parrot	Loriculus exilis	•		230	-	-	-	4	<u> -</u>		-	2	-	ç	-	+	, "	) (	+	,	2 0	9 4
Golden-mantled Racket-tailed Parrot	Prioniturus platurus	4	¥	4	32	37	>146		- 2	rid vilando de la constanta de	-	20	-	2	- 22		C	+	2 6	7	0	-
Great-billed Parrot	Tanygnathus megalorynchos		┝	10	10	+	6			1	-	3 0		,	3 6	1	7	2		2		
Blue-backed (Muller's) Parrot	Tanygnathus sumatranus		ľ	0	S	<u> </u>	12	-	-		-	-			, E		7		- -	0 5	***************************************	Avenden
Sulawesi Hawk-Cuckoo	Cuculus crassirostris	•	$\vdash$		-	┝	+			+		_	1	-	2	-	$\dagger$	+	1	71		
Oriental Cuckoo	Cuculus saturatus		-	-	-	-	-			-	-			-		-	-	-	-	-	Methods Shows	
Plaintive Cuckoo	Cacomantis merulinus		7	2	4	က	-	1	-	-		٠	-	- 6	P	-	,	+	+	·	•	
132 Indonesian Cuckoo	Cacomantis sepulcralis	*			-	-		The second second	-	-			-	-	P	-	<b>y</b>	-	-	7 +	7	Astronomy are
133 Horsefield's Bronze-Cuckoo	Chrysococcyx basalis		-	-	-			$\mid$	-	-	H	1	1		•	$\dagger$	+	+	1	-		
Gould's Bronze-Cuckoo	Chrysococcyx russatus		<u> </u>				-	1			-	-	-	r		***************************************	-	-	_	-	- Barbaran and Co	-
Drongo Cuckoo	Surniculus lugubris		-	2	S	2	2			-	-	-	4	,	F	+	1	+	٢	•		
Black-billed Koel	Eudynamys melanorhyncha	*		_	6	3	2	2		_		4	-		- (*)	+	-	+	7	7 4	***************************************	-
Channel-billed Cuckoo	Scythrops novaehollandiae			~					-		-	-	-	2	,	+	+	1	* *	o ~		
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus		-	2 2		သ	2	4	-	E		4	5	× 16	ď		7	c	- (*	יו כ	_	*
Lesser Coucal	Centropus bengalensis	2		٠	4	5	-	r)	2	2	<del> </del>		1	5.	, 9	T	r &	+	) r	ני כ		- 4
Bay Coucal	Centropus celebensis	-		2	7	6	<b>«</b> )	4	2	2	~	•	4	>15	12			4	) a	) u		0
Sulawesi Owl	Tyto rosenbergii	•					-				$\vdash$					-	╁	+	•	,		7
Sulawesi Scops-Owf	Otus manadensis	•				က	m		-		_			5	-	-	-	7	1	4	***************************************	MH
Speckled Hawk-Owl	Ninox punctulata							-	-		_	_				-	1	-	+	2		
Ochre-bellied Hawk-Owl	Ninox ochracea				_			-	La de la constante de la const					22	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-				c	***************************************	1
Satanic Nightiar	Eurostopodus diabolicus			_	2	1	42		-		H						-	+	-	•		
Great-eared Nightiar	Eurostopodus macrotis					-	-									-	15		1		-	***************************************
Long-tailed Nightjar	Caprimulgus macrurus			-	_	+			-	-	-	$\perp$	L			$\frac{1}{1}$	+	+	_			
Savanna Nightjar	Caprimulgus affinis			_			ო			-	-		_	1	The second second		-	-		٠	- Addition of the last	
Grey-rumped Tree-Swift	Hemiprocne longipennis	49		8	18	-	ļ	7	6	ž	10	4	23	ň	15	Ì	7	4	7	ų į	·	ţ
White-bellied Swiftlet	Collocalia esculenta	× 0	_	>20	>15	3 >20	12		- Constitution of the last of	40	_		8	7	2 10		<del></del>	, 0	╁	2 7	7	2 7
Moluccan Swiftlet	Aerodramus infuscatus			_	Ę,	-	-		9	>30	Q	_			7	l	3 0	-	+	-	F	١
Uniform Swiftlet	Aerodramus vanikorensis	×10	۸	×100 17	7 >52	2 >133	×38	15	and the same	>28	•0		>50	8	2102		2,5	12	7.6.	ч		*
White-throated Needletail	Hirundapus caudacutus					•						_		-	3	T	1	4	+	+		•
Purple Needletail	Hirundapus celebensis				_	**				_			-		- Particularity		-	-	The second second	-	Control of the last	Townson,
155 Fork-tailed (Pacific) Swift	Apus pacificus					-			_		-	_	-		T		Ŧ	1	-	1	Ī	
•				-						-	•			_	-		_					

Square		28	65	9	62 6	63 65	99	67	88	69	70 7	72 73	74	75	76	78	79	80 83	30	94	Max
COMMON NAME	SYSTEMATIC NAME	***************************************	-	-	- International					Here was a second	1	The state of the s	the state of the s	Andreis vanhausen	,			$\vdash$	$\vdash$	-	
105 Slender-billed Cuckoo-Dove	Macropygia amboinensis	+	$\prod$	4	+	+	+	1	ļ	-	+	$\dashv$	-								Count
106 White-faced Cuckoo-Dove	Traccena manadensis	*	-	ה ה	, ,	0 0	2	2,	7	7	$\dashv$	2	2	4	4		2	4	-		5
107 Green-winged Pigeon	Chalcophaps indica	1	-	+	-	1	+	7	4	+	-	_	2	4	60		-				11
108 Stephan's Pigeon	Chalcophaps stephani	1		,	+	•	+	-	ŀ	-	-	4	7	The state of the s				2	-		က
109 Zebra Dove	Geopelia striata	L		+	+	+	+		1	+	+	+	-		m		+	1	-		က
110 Pink-necked Green Pigeon	Treron vernans				-	-	-		*	A111	1		-	***************************************	-		-	and and	2		~
111 Grey-cheeked Green Pigeon	Treron griseicauda	*		9	ď	2 2 4 2	2 7	r	- 0	1	1		- 1	1		1		-	5		7
112 Maroon-chinned Fruit-Dove	Ptinopus subgularis	*			+	T	,	?	n		-		A 43	57	×25		7	>57	7.	***************************************	>57
113 Black-naped Fruit-Dove	Ptinopus melanospila		2	80	╁	3	20	មា	11	,	2	_	*	,	14	·	ļ	- 1		_	-
114 White-bellied Imperial Pigeon	Ducula forsteni	*			S	Ļ	Ť	-		╁	-	-	-	7	2	+	11	974	0	S	3
115 Grey-headed Imperial Pigeon	Ducula radiata	•		-	-					+	+	+	-		1	$\dagger$	+	+	+	4	8
116 Green Imperial Pigeon	Ducula aenea				The second sections		9		-		-	-	-	Ŧ		T	-	_		and the latter and the	S
117 Blue-talled Imperial Pigeon		# #		-	_	-				-	-	-	-	-	1			+	+	_	9
118 Fink-headed Imperial Pigeon	Ducula rosacea	**		15	4	9	15	4	m	e	_	-	0	4	9		-	-	Total Carlos		-
119 Pied Imperial Pigeon	Ducuta bicolor		-	-	-	╁	-			-	+	-	n .	2 4	•	-	n	+	-	_	>27
120 White Imperial Pigeon	Ducula luctuosa	*		77	1	6	12	2	o	4		***************************************	u	> +	-	-	*		7 9	-	•
	Cacatua sulphurea	4				H				) -	+	-	n u		7 0	1		,30 ,30	4		×79
122 Ornate Lorikeet	Trichoglossus ornatus	*		2	2		q	2	***************************************	***************************************	of the last of the	and the state of t	7		0 6	HAVE BEEFFE FOR	7	-	A Company of the Company	espid relationship to the	6
123 Yellow-and-Green Lorikeet	Trichoglossus flavovíridis	*					+	1	T	+	+	+	-	17	0	-	4	+	+		27
124 Sulawesi Hanging-Parrot	Lorículus stigmatus	<sub>4</sub>	- Andrews	r)	2	3	†	- Andrews State of the State of	Ų.	-	-	+	+	1		-	Ì	+	4	-	-
125 Green Hanging-Parrot	Loriculus exilis	*		2	╁	╁	. «		> (*	+	-	1	- -	172	2	1	7	2 4	m		>27
	Prioniturus platurus		-	+	11	╁	+	Ţ	<del> </del>	-	-	-	-	-	- -		-	4	_		8
127 Great-billed Parrot	Tanygnathus megalorynchos	-		-	2	(	╁	·	c	•	-	+	,	·	7	1	1	-		_	>146
128 Blue-backed (Muller's) Parrot	Tanygnathus sumatranus			9	1	3		•	4	-		i de la constanta	-	2	7		n	-			22
129 Sulawesi Hawk-Cuckoo	Cuculus crassirostris	-		+	-	╀	+		T	+	4.		0			-	m	-	_		<u></u>
130 Oriental Cuckoo	Cuculus saturatus	-		-		Anderson management	-		+	-	+	1	-				- Land	-	-		-
	Cacomantis merulinus				H	-	-	c	T	+		+			,	-	+	+	•		-
132 Indonesian Cuckoo	Cacomantis sepulcralis	*	-		-	-	- Control of the Cont	•	1	-	1	1	-	Ī	+	+	+	-	ო		4
133 Horsefield's Bronze-Cuckoo	Chrysococcyx basalis			_	-	-			1	-	+	-	1			$\dagger$	+	+	+		4
134 Gould's Bronze-Cuckoo	Chrysococcyx russatus			-	-		-	-	***************************************	-	-		_		+	- International	-	-	1	-	and the same of th
135 Drongo Cuckoo	Surniculus lugubris				1	2 2	6		-	-	۳	+	-	r	,	+	-	+	+		2
136 Black-billed Koel	Eudynamys melanorhyncha				6	7	(5)		and annian to the state of	- The state of the	1		and the same of th	-	4 *	+	_	-			ត
137 Channel-billed Cuckoo	Scythrops novaehollandiae			-		-			-		-	-	-		+	-		+	-		S.
138 Fiery-billed Malkona	Phaenicophaeus calyorhynchus		-	2	2	39	9	_	2	1	-	-	٥,	14	6	T T	-	4	-		n (
139 Lesser Coucal	Centropus bengalensis	S.	e	-		H	├-	6	2		8	-	,		4 P	, ,	2	+	1	ļ	2 4
140 bay Coucai	Centropus celebensis	e •		5	5		6	ø	4	2	40	-	1	•	7	-	7	-	1	1	2 (
(42) Substanti Sone-Det	( yo rosenbergi	_									-	_			-	╀		-	+	ŀ	<u> </u>
143 Special Mark Carl	Otos manadensis	_		+		4	က						-		-	- Colorandor	-	-			T L
144 Ochre-bell ed Hawk-Dw	Ninox punctuata	America consistence of the control o	, in the same	- Andreas and and and and and	-	-	No.	-	Transfer designation of the last	***************************************	1					-		-	-		-
145 Satanic Nightiar	Eurostopodus diabolicus			-	+	+	1		+	$\dashv$	$\dashv$										-
146 Great-eared Nightiar	Eirostopodus macrotis		-	-	-	-	-	1		-	-		-		-						4
147 Long-tailed Nightiar	Caprimulaus macrurus	1	Ţ	***************************************	-		2		-	-	1	4	$\prod$	-							12
148 Savanna Nightjar	Caprimulous affinis	-		***************************************	Westernake Bresser.	-	- 57			-	-	-									٠-
149 Grey-rumped Tree-Swift	Hemiprocne longinennis	P		22	220 46	9	+	╅	7 5	+	7		Т		1			_			ψ A
Het	Collocalia esculenta	G		- <del> </del>	1	3	272	7,7	2 4		7	1	n (	65	43	+	7 7	6	-	,	× 80
Moluccan Swiftlet	Aerodramus infuscatus			-	-	•	+-	+	2 2	+	+		T	3	22	c)	2	60	×34	13	×185
	Aerodramus vanikorensis		-	2	-	25	<del>-</del>	7,	-	u	25			90			-				>35
153 White-throated Needletail	Hirundapus caudacutus			-	H		┿-		+	+	+	_	I	-	747	4		7	×	2	× 33
Purple Needletail	Hirundapus celebensis				-	Harmon Control		-	- Constitution of the Cons	(1914) and arrangement on	-	-	-	-	-	video constraint	-				-
Pacific) Swift	Apus pacificus			-	-				-		-	1	Ţ	+	T	+	1	-		1	-
156 House Swift	Apus nipalensis			-		and the second s		-	-	>25	r.	-		+	-	-	-	-			-
											,	-		-	-						22

Square		-	4	5	8 13	3 18	19	23	2.4	28	33   3	34 44	73	1	34	-	H	-	r	-		
COMMUNICAME						╁			+			+	╁╌	F	2	ř	g g	? ₽		ន	ဂ္ဂ	27
157 Asian Dalm Swife	OTO EMALIC NAME		†	+	-	_										The second second	-	1	-	***************************************	-	
CB Dire had a large a large and a large an	Cypsiurus parasiensis	Ø	- I de la company de la compan	>20		21	7		L	_	_					$\dagger$		20	-		1	-
130 Diue-neaded Wood Kinghsher	Actenoides monachus	4		<del>-</del>					-			-	-				*****	+	+		1	
	Halcyon coromanda				-	_		-		-	0	+	-			+	+	-	1	-		
	Halcyon melanorhyncha	*		<del>-</del>	2 2		+	-		-		-			-		1	+		-	-	To the last of the
191 Collared Kinglisher	Halcyon chloris	1	κ̈́	7	4 7	12	-	7	on	4	4	י ע	7		7	1	$\dagger$	7	+	m		
162 Sacred Kingtisher	Halcyon sancta	1	-	-	_	4			+	ł	Ŧ	t	<b>)</b>	-		-	4 (	5 7	*	9	8	4
	Ceyx fallax	*		-	-	-			+	$\dagger$	+	+	+	1		1	+	>13	2	2	4	
164 Blue-eared Kingfisher	Alcedo meninting		-	-	-	-	-			+	-	+	-		and the second				-	7	-	-
165 Common Kingfisher	Alcedo atthis			-	1	t		+	$\dagger$	+	+	+	1	ŀ	- (	1	+	1	+			
166 Rainbow Bee-eater	Merops ornatus	***************************************	-	50	. 250	20 0	>4	· ^			- 077	+	,	- 6	7		_		***	6		
167 Purple-winged Roller	Coraclas temminokii		-	4	-	↓	4_	,	+	+	2	1	2 ,	3,	ο Λ	+	Λ	350 > 13		>29	^20	>136
168 Broad-billed Roller (Dollarbird)	Eurystomus orientalis			8	)	+	4	)	-	1	1	n	-	Š	m	-	_			ဖ		
169 Sulawesi Hornbill	Penelopides exarhatus		$\dagger$	-	1	+	1	ŀ	+	+	+	- -	_		,	1			-			
170 Red-knobbed Hornbill	Rhyticeros cassidix	*		13	4	12	0	- 2	***************************************		-	- -	-	2	7	-		>7 4		9		
171 Sulawesi Pygmy Woodpecker	Picoides temminckii	*	1	+	+	┿			-	-	-	+	4	16		9	-	12 8	80	12		
72 Ashy Woodpecker	Mulleripicus fulvus	#		ec ec	1	+	4	•	-	***************************************	-	***************************************		-	•							
173 Red-bellied Pitta	Pitta erythrogaster			+		3 6	, (	,	+	-	+	1	-	12	=	7		9 2	$\dashv$	ო	+	-
174 (Hooded Pitta	Pitta sordida]		T	•	-	+	-		distance of the latest of the	-	-	-	-	2	0			-	-			
175 Barn Swallow	Hirundo rustica			4	$\frac{1}{1}$	-	$\prod$		+	+	+	+	-				_					
76 Pacific Swallow	Hirundo tahitica	10	İ	A C	230	, ,	I	5		-	+		-							+		
177 Pied Cuckoo-Shrike	Coracina bicolor		T	+	4	+	4	1	+	č.	+	+	m	4	-	_	v 19	35		8	40	S
178 White-rumped Cuckoo-Shrike	Coracina lettconvoia			-	ם מ	+	_	ļ	-	$\dashv$	+	2		ស	4			m	-	6		
179 Common Cicadabird	Coracina tentifrostria		1	3 0	+	+	_	2	$\dashv$	4	5	+	4	14	4	<del>-</del>	_	5	9	o	m	Action Contractor
30 Sulawesi Cicadabird	Coracina morio	The second section of the second second	-	, ·	7	+	4	7	-	1	-		_	ហ	~			_	-	4		
181 Sulawesi Pied Triller	Lalade Inigral Autonomistic	1	-	<b>,</b>	0 0	+	9	D.	+	+	7	7	-	თ	m			4	<u> </u>	S	1	
32 White-winged Triller	algo sierii		-	<b>7</b> C	7	7	7		-		-	_	-	က	-	_	-	4 2	2	2		6.
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184  Yellow-vented Bulbul	Denomina coloniar		1	-	-	-	Ţ	-	description of the same	***************************************	_						-	-	L	-		Ţ
185 Hair-crested Drongo	Occurs bottestatus	ļ	,	+	+	+	]			-	-				_		_			_		Header
186 Black-paped Oriole			7	-ļ	5	+	40	2			-	-	-	>20	24		-	+	+	12	*	
187 Slander-hilled Crow	Olioius chinensis	4	-		11	-	6	7	-		4	F	12	15	16	1	2	2	9 5	7 7		ç
188 Diving Crow	Corvus enca		e			4		4			-	-	┞	S	(9	╁	╁	+	+	2 9	·	7
189 Sulawei Babbier	Corvus Typicus		1	7		S	2	2			2	2		4	4			+	9 6	? <	-	
190 Died Bushchat	I richastoma celebense	-	1	12	15		ဖ	18			2	6	7	>20	-	-	1	2	+	7 0	u	
191 Rad-backed Thrush	Saxicola caprata		1		3								_				-	1 4	1		n	•
92 Golden-bellied Gerwone	Cardona erymonota			+	+	-		an Leading Company	49-11				_				<u> </u>	<u> </u>	_	-	T	•
193 Flawny Grass-Warbler	Menalisma timoriamia	† +	+	7	- 0	2		-		-	_						2			***************************************	σ	-
194 Clamorous Reed-Warbler	Acrosopalia stantorana		1		-			1000-1000	- plantame	1	-				-	_		_	-		Ī	•
195 Zitting Cisticola	Claticola luncidia		1	+	1				+	+	+	_					-					-
96 Golden-headed Cisticola	Cisticola exilis		-	*	7	- 6			1	- Allendary	-	$\dashv$					T					Γ
197 Asian Brown Flycatcher	Muscicapa latirostris		-	1	3 6	٥		n	+	+	+	-		2	1	-	-			-		
198 Grey-streaked Flycatcher	Muscicapa griseisticta		-	Webstelle.	>				-		1	2	-	-	-	1		-	<del></del>			
199 Black-naped Monarch	Hypothymis azurea puella		~	9	+	σ	4	ч	-	+	1	<u> </u>	ļ.		1		+	$\dashv$	-			
200 Citrine Flycatcher	Culicicapa helianthea		-	4	_	1	7	>	7	7	***************************************	4 1	n	2	ω.		9	9	ო	7	၉	7
201 Rusty-bellied Fantall	Rhipidura teysmanni	,	+	_	-		F		+	+		1	1	16	17	-	43	-	7	4		
202 Common Pipit	Anthus novaeseelandiae		-		Till and the same of the same						1					The second second		-	-			
203 Petchora Pipit	Anthus gustavi		-	L	-	Ŀ		$\int$		-	-	+			1	1	1	+	1			
204 Mangrove Whistier	Pachycephala grisola	2			-	Ŀ			+	*		-	-		1	-		-	-	***************************************		man proprietation and
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o Grey Wagtall	Motacilla cinerea		<del> </del>		-	-		-	Total Control of the	-					0	-	-					of any plant party and a
VVIIIe-breasted Woodswallow	Artamus leucorhynchus		ro ^	20 9		-	9	19	5	2 8	+	+	۵	a	ç	+	+	+	7		-	1
210 Wory-backed Woodswallow	Artamus monachus			15	5	13	6	+	+	2 0	r +	7 4	0 +	n -	2 .		יין מ		7	27	n	9
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COMMON NAME	SYSTEMATIC NAME	_			-	-	-	-				-		-	-						O	ount
157 Asian Palm Swift	Cypsiurus balasiensis	***************************************		-	-	-	4	-				ဓ္က	-	12 2	က						_	7
158 Blue-headed Wood Kingfisher	Actenoides monachus			-	<del></del>	_															_	-
159 Ruddy Kingfisher	Halcyon coromanda				-	-		_				-	<u></u>	<u> </u>	_				-	<u> </u>	H	
160 Great-billed Kingfisher	Halcyon melanorhyncha	*				2			2	-	-	<u></u>		-		-	-		-	-	ŧ	
161 Collared Kingfisher	Haloyon chloris	មា	9	7	2	3	12	ယ	7		4	12		5	7	5	2	σ	-	-	+	14
162 Sacred Kingfisher	Haloyon sanota				-	-	<del> </del>	Ļ	-	dition by and the			-	-	-		The second second				+	
163 Sulawesi Pygmy Kingfisher	Ceyx fallax	+		-	-		-	-				-	-	$\frac{1}{1}$	-	-	-			,	+	2 -
164 Blue-eared Kingfisher	Alcedo meninting						mterfer-ra				-	2	Water Land		-		- The second sec			**   (   m.	+	
165 Common Kingfisher	Alcedo atthis	L				1	_	L	7	-		-		3	╫	-			м	-	F	0.
166 Rainbow Bee-eater	Merops ornatus	•	×10	თ		X	4 12	33	2	debrahama		12	- International Property	16	12	***************************************	v 18		1	15	+	350
167 Purple-winged Roller	Coracias temminoldi				-	┢	⊢	-			-		+	2	H				-	4	F	Œ
168 Broad-billed Roller (Dollarbird)	Eurystomus orientalis	Mary Mary Mary Mary Mary Mary Mary Mary	- Company	-		9	-			Total House			-	1		dysalvania and annua	erent erent erent er			The second	+	,
169 Sulawesi Hornbill	Penelopides exarhatus			ß	2	H	9	4	2			4	+	-	$\perp$	-			5	-	+	. 2
170 Red-knobbed Hornbill	Rhyticeros cassidix	-		Ξ	_	2	-	23	7	2	110000000000000000000000000000000000000	0	7	80	80			and the same	+		+	2 5
171 Sulawesi Pygmy Woodpecker	Picoides temminokii					H	-					+	-	-	╁	-			-	-	1	3 (*
172 Ashy Woodpecker	Mulleripicus fulvus	2		4	~		4	-	-	- Transport		-		4	١		2		4	.venerate designation		2
173 Red-bellied Pitta	Pitta erythrogaster					6	4					-		-	2	-				-	+	9
174 [Hooded Pitta	Pitta sordida]											_	<u></u>	-	_		The state of the s	- Harman Control	-	Annual Management	-	
175 Barn Swallow	Hirundo rustica	_	L		-		<u> </u>	-				-	-		-					-	H	1 4
176 Pacific Swallow	Hirundo tahitica			7	_	2 3	15	The state of the s	5		90			8 >2	>24 7	-	_		9	5	+	9
177 Pied Cuckoo-Shrike	Coracina bicolor				m	m	H	-						t						╀	ŧ	3
178 White-rumped Cuckoo-Shrike	Coracina leucopygia	ى *	က	4	2	-		4	- Andread and Andr	4	and contract constant	e		8		4	•	. Belgannandelelele	ď	u	1	, ;
179 Common Cicadabird	Coracina tenuirostris			ß	+	(4)	un	<u> </u>				t	+		+	<b>\</b>	, -		,	,	+	<u>.</u>
180 Sulawesi Clcadabird	Coracina morio	. 4	And district all services	4	m	2	1	-	-		-	-	merita and atmin	ŀ	ı ve	The state of the s		office and the second		- Programma	+	7 0
181 Sulawesi Pied Triller	Lalage Inigral leucopygialls	2			+	7	╁	-				e	Ť	,	╁	-	•		1	+	+	o u
182 White-winged Triller	Lalace sueurii	မ	The state of the s	dend debalmen	-	All the second second	4				- Company of the Comp		) leading to the lead	-	,	Wat Named or Park	1			-	+	7 6
183 Sooty-headed Bulbut	Pychonotus auricasfer					-	-					+	+	+	*		-		$\dagger$	+	+	T
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186 Black-naped Oriole	Oriolus chinensis	2		11	4	7	7 7	) a		9 (*	+	> 2		2 4 6	0 0	•	, u	٠	n a	0 7	+	97,
187 Slender-billed Crow	Corus enca		4	-	T		t	╀	1	>	,	- 2	+	+	╀	4 6	2 c	2	9	+	+	2
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189 Sulawesi Babbler	Trichastoma celebense	4		10	7	- K	+	2	_		-	200	+	2	╁	P	- 2	4	7 7	1	+	2 5
190 Pied Bushchat	Saxicola caprata	Course of the Co			the same and the same	t	÷	<del>-</del>			T	4	-	╀	╁	÷	•	6		a	+	3 a
191 Red-backed Thrush	Zoothera erythronota	4	L		T	4	4	-			1	-	-	-	-	-		•		+	+	4
192 Golden-bellied Gerygone	Gerygone sulphurea					_		8					1	-	m	2	6		Special Company and Advantables		H	6
193 Tawny Grass-Warbler	Megalurus timoriensis	Language Language			***************************************		-								H				-		H	T
194 Clamorous Reed-Warbier	Acrocephalus stentoreus	_			1		-						_									2
195 Kitting Cisticola	Cisticola juncidis		_		+		Hill codd domination.	n			-		4	-	-			bel deretelenes		7 11		=
100 Columniated Cistoria	Marie Constitution of the	-				-	+	+			1	$\dagger$	+	+	1	1			1	4	+	on .
198 Gravatraskad Flycatchar	Miscipals original to the second seco	-	1	-	- The state of the		Helledilds of temperatures					- Alexanderia	-	-	-	-		- Internation			+	6
199 Black-naped Monarch	Hypothymis azurea puella	_		ur	6	e.	+	u		•		-	+	о и	-	c	¥	r	q	+	+	
200 Citrine Flycatcher	Culiciana helianthea	-terms eteration than the	1	-		7	<u> </u>	-	The Assessment of Street,	-	1	40		Ť	+	<b>*</b>	1	4	0 0	<b>-</b>	+	0 +
201 Rusty-bellied Fantail	Rhipidura tevsmanni	*	L				_	-	_		T	-	-	-	1	_			•	ľ	+	
202 Common Pipit	Anthus novaeseelandiae	-			Carrie De Delocité d'abbient	manufacture de constitue de la	-	-	-		l			and the second second	-		Trategua areas			Chapter of the Control of the Contro	1	4
203 Petchora Pipit	Anthus gustavi	_						-					-							-	+	
204 Mangrove Whistler	Pachycephala grisola					m									_					- I shadow because the		_
205 Yellow Wagtail	Motacilla flava													_	2					_		ហ
206 Grey Wagtail	Motacilla cinerea	-				-								***	_							ທ
207 White-breasted Woodswallow	Artamus leucorhynchus	8	~	9		14 4		∞			5	7	4	18 5		တ	'n	4		5 25	-	27
210 Ivory-backed Woodswallow	Artamus monachus	_	-	~	9	3	9	39					$\dashv$	-	2		က			Н	$\vdash$	6

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		NAME								s				E,			And below the second se	ᇤ				- II nite sale ni cinate con con construction in	
		SYSTEMATIC NAME		8		nsis	Basilornis celebensis	Streptocitta albicollis	Scissirostrum dubium	Anthreptes malacensis	asia	laris	raja	Dicaeum aureolimbatum	orni.	icum	ris	Zosterops consobrinorum	JUS	cca	tulata	cca	da da
		YSTE	grinus	ristatu	ninor	anay	s cele	ita alk	Strum.	es ma	a asp	100 6	a sip	aure	i nehri	celet	s chk	S con	nontar	a molt	ound e	a mais	a palli
	and the second	S	anius tigrinus	anlus cristatus	Aplonis minor	Aptonis panayensis	silorni	eptoc	SSIFO	thrept	Vectarinia aspasia	Nectarinia Jugularis	Aethopyga siparaja	Saeum	Dicaeum nehrkorni	Dicaeum celebicum	Zosterops chloris	stero	Passer montanus	Lonchura molucca	onchura punctulata	onchura malacca	onchura pallida
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		AME			ing		and the same but stores		***************************************				and market bear	9	223 Crimson-crowned Flowerpecker		9					-	
	Vigo de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición dela c	COMMON NAME			213 Short-tailed Glossy Starling	ling	Myna	ē	***************************************	Inbird	Challe Commission to the	bird	***************************************	222 Yellow-sided Flowerpecker	Flower	224 Grey-sided Flowerpecker	225 Lemon-bellied White-Eye	-Eyo	arrow		e ur		æ
	National Property of the Prope	NO.	0	0	Gloss	y Star	ested	My pe	Myna	ted St	2	d Sun	nbird	된	wwed	Flower	Ş po	Σ V	ee Sp.	Munis	ted Mt	nula	Mun
9		)	Shrik	Shrik	tailed	Gloss	esi Cr	-necke	pilled	-throa	Sunbi	backer	TS U	-side.	on-cro	ided	1-belli	ellied	an Tr	faced	breas	ž.	leader
Square		The second	211 Tiger Shrike	212 Brown Shrike	Short-	214 Asian Glossy Starling	215 Sulawesi Crested Myna	216 White-necked Myna	217 Finch-billed Myna	218 Brown-throated Sunbird	219 Black Sunbird	220 Olive-backed Sunbird	221 Crimson Sunbird	\ellow	Crims	Grey	emo	226 Pale-bellied White-Eye	227 Eurasian Tree Sparrow	228 Black-faced Munia	229 Scaly-breasted Munia	230 Chestnut Munia	231 Pale-headed Munia
L			211	212	213	214	215	216	217	218	218	22	221	22	223	224	225	226	227	228	229	30	231

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- 1	Scissirostrum dubium	*	>21	>68			>25	36	>68			۸	×50	15	35	2		4	-			T	>250	
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1	Aethopyga siparaja	₩		۳		2	7	7	ဖာ	_			4		2	4		-	4	4			•	
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ı	Dicaeum nehrkorni	*						-	<b>-</b> -		-		-		_	-	_	L	_				-	
1	Dicaeum celebicum			œ	က	<del>,-</del>	6	13	11		2	-	s	*	2	1,	L	15	တ	9	6		20	
-	Zosterops chloris	15	2	•		7	~	17	15			1 2	24	1	4 8	9	_	Ξ	9			>19	>31	
1	Zosterops consobrinorum	*	7	6		-	မ	<u>13</u>	<u>5</u>			5	9	-	۸	>15 7	4	>7	7		- Action of the last		18	
- 1	Passer montanus									_	_	_		_	_	_	_	_	_	_			2	
į	Lonchura molucca	*		80				ß	<b></b> -			•	_	-	L	14		2			>15	4	>200	
1	Lonchura punctulata		_				7	12				_	9								-		>20	
Į	Lonchura malacca		-	January Harden	The desired to be seen		c)	ablant menter					H			_		_					>140	
-	Lonchura pallida	**	_								_		_	_						-			9	
													İ	-	l				1			1		

SQUARE	1			
DATE			31/7	Max
				Count
SURVEY TIME			60m	
The state of the s				1
COMMON NAME	SYSTEMATIC NAME		1	
Whimbrel	Numenius phaeopus		1 1	1
Spotted Dove	Streptopelia chinensis		2	2
Black-naped Fruit-Dove	Ptlinopus melanospila		1	1
Pink-headed Imperial Pigeon	Ducula rosacea	**	1	1
Sulawesi Hanging-Parrot	Loriculus stigmatus	•	4	4
Golden-mantled Racket-tailed Parrot	Prioniturus platurus	-	4	4
Lesser Coucal	Centropus bengalensis		2	2
Grey-rumped Tree-Swift	Hemiprocne longipennis		19	19
White-bellied Swiftlet	Collocalia esculenta		>10	>10
Uniform Swiftlet	Aerodramus vanikorensis		>10	>10
Asian Palm-Swift	Cypsiurus balasiensis		6	6
Collared Kingfisher	Halcyon chloris		1	1
Sacred Kingfisher	Halcyon sancta		1	1
Blue-eared Kingfisher	Alcedo meninting		1	1
Red-knobbed Hombill	Rhyticeros cassidix	*	1	1
Pacific Swallow	Hirundo tahitica		10	10
White-rumped Cuckoo-Shrike	Coracina leucopygia		1	1
Hair-crested Drongo	Dicrurus hottentottus		1	1
Black-naped Oriole	Oriolus chinensis		4	4
Sulawesi Babbler	Trichastoma celebense	*	1	1
Mangrove Whistler	Pachycephala grisola		2	2
Asian Glossy Starling	Aplonis panayensis		25	25
Brown-throated Sunbird	Anthreptes malacensis		8	8
Olive-backed Sunbird	Nectarinia jugularis		11	11
Lemon-bellied White-Eye	Zosterops chloris	**	11	11
				1
TOTAL SPECIES: 25	1985 1884 1884 1889 1889 1884 1884 1884 1884			
SULAWESI ENDEMICS: 5				1
NDONESIAN ENDEMICS: 2				
TOTAL TIME: 1h				
TEAMS: 1				

SQUARE	4	<del></del>	27/06	Max
DATE		<del></del>	27/00	Count
		<del></del>	50m	COUNT
SURVEY TIME			1 00111	
COMMON NAME	SYSTEMATIC NAME	<u>-</u>	1	<del></del>
	Haliastur indus		1 1	1
Brahminy Kite	Falco moluccensis	**	1	1
Spotted Kestrel	Streptopelia chinensis	<u> </u>	1	1
Spotted Dove	Treron vernans		2	2
Pink-necked Green Pigeon	Treron griseicauda	**	12	12
Grey-cheeked Green Pigeon	Trichoglossus ornatus	<del> -</del>	1	1
Ornate Lorikeet	Loriculus exilis		3	3
Green Hanging-Parrot	Prioniturus platurus	*	>1	>1
Golden-mantled Racket-tailed Parrot	Cacomantis merulinus		2	2
Plaintive Cuckoo	Phaenicophaeus calyorhynchus	*	1 1	1 1
Fiery-billed Malkoha	Halycon chloris		>5	>5
Collared Kingfisher	Alcedo meninting	<del> </del>	1 1	1
Blue-eared Kingfisher	Coracias temminckii		111	1
Purple-winged Roller	Dicrurus hottentottus		3	3
Hair-crested Drongo	Origius riottentottus Origius chinensis		<del>  1</del>	1
Black-naped Oriole	Corvus enca		† <del>3</del> †	3
Slender-billed Crow			1 2	2
Black-naped Monarch	Hypothymis azurea puella	<del> </del>	<del>                                     </del>	1 1
Citrine Flycatcher	Culicicapa helianthea Artamus leucorhynchus	<del></del>	+ 5 +	5
White-breasted Woodswallow	The same of the sa		7	<del>  7</del>
Short-tailed Glossy Starling	Apionis minor		, .	2
Black Sunbird	Nectarinia aspasia	<del> </del>	2 5	5
Olive-backed Sunbird	Nectarinia jugularis		+ + +	+ 1
Crimson Sunbird	Aethopyga siparaja		2	2
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	-	5	5
Pale-bellied White-Eye	Zosterops consobrinorum		+	
TOTAL SPECIES: 25				1
SULAWESI ENDEMICS: 7		<u>Ì</u>	1	<u>.                                    </u>
INDONESIAN ENDEMICS: 2		_	<del></del>	<u>_</u>
TOTAL TIME: 50m			<u> </u>	
TEAMS: 1		<u>i</u>		1

SQUARE DATE	5	T	26/6	26/6	27/6	27/7	27/7	28/7	28/7	29/7	29/7	30/7	30/7	Max
THE RESERVE THE PART AND THE PA		1	T				Ī	Ţ~~~~	Ī	T	Ţ			Count
SURVEY TIME		-	270m	170m	50m	330m	90m	360m	110m	330m	180m	210m	80m	<del> </del>
COMMON NAME	SYSTEMATIC NAME	+	1	<u> </u>	<b></b>	<u> </u>		1	<del>                                     </del>		<del> </del>			<del> </del>
Striated Heron	Butorides striatus	1								1				1
Osprey	Pandion haliaetus	4	ļ			~	1	2	2_	<u> </u>	<u> </u>	<u> </u>		2
Barred Honey-Buzzard Brahminy Kite	Pernis celebensis Haliastur indus	+-	2	2	1		2	<del> </del>	<del> </del>	<u> </u>	1	2		2
Sulawesi Serpent-Eagle	Spilornis rufipectus	F	1	1	1	2	<b></b> -	1	<del> </del>	3	1	2		3
Spot-tailed Goshawk	Accipiter trinotatus	1	1											11
Little Sparrowhawk	Accipiter nanus	<u> </u> *	2		1		1	1_	ļ	ļ				1 1
Black Eagle Spotted Kestrel	Ictinaetus malayensis Falco moluccensis	-		1	1	·	2	1	1	3	1			2 3
Barred Rail	Gallirallus torquatus	T	L	4		1		<u> </u>					2	4
Feral Pigeon	Columba livia	I	1	3										3
Spotted Dove	Streptopelia chinensis	ļ.,	1 5	2	4 2		3	1	2	7		2	9	9 5
Slender-billed Cuckoo-Dove White-faced Cuckoo-Dove	Macropygia amboinensis Turacoena manadensis		1	3	1		<u> </u>	1		<u> </u>		1		3
Green-winged Pigeon	Chalcophaps indica	T									1			1
Stephan's Pigeon	Chalcophaps stephani	L	2					1						2
Pink-necked Green Pigeon	Treron vernans	**	5		7 12				ļi	2	3		3	7 12
Grey-cheeked Green Pigeon Black-naped Fruit-Dove	Treron griseicauda Ptlinopus melanospila	+-	2		14	5	2	6	1	5	18	4	-3	18
Pink-headed Imperial Pigeon	Ducula rosacea	*-		7					2	>10	6	6	2	>10
Pied Imperial Pigeon	Ducula bicolor	L	Ţ	3										3
White Imperial Pigeon	Ducula luctuosa	*	6	7	8 2	3	5	>24	4	>20 14	6	ļ	4	>20
Ornate Lorikeet Sulawesi Hanging-Parrot	Trichoglossus ornatus Loriculus stigmatus	-	9	1	2	4	Э.	>24 5	5	3	0	3	3	9
Green Hanging-Parrot	Loriculus exilis	+	>30	1	3	11	2	12	10	9	2	6		>30
Golden-mantled Racket-tailed Parrot	Prioniturus platurus	*	>30	>20	25		34	25	2	15	12	27	20	34
Great-billed Parrot	Tanygnathus megalorynchos	ļ.,	L		2			ļ <u>-</u>		10	4	1_		10
Blue-backed (Muller's) Parrot	Tanygnathus sumatranus Cacomantis merulinus	+-	10	9	2	2	1	1		2	2	2		10
Plaintive Cuckoo  Drongo Cuckoo	Surniculus lugubris	╁	1							<del></del>		<b></b>		1 1
Black-billed Koel	Eudynamys melanorhyncha	•		1										1
Channel-billed Cuckoo	Scythrops novaehollandiae	L	<u> </u>			2		ļ						2
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	-	1		_2	1	1 2	1	1	3	2	3	3	3
Lesser Coucal Bay Coucal	Centropus bengalensis Centropus celebensis	*	1 1			1	2	5		3		5	1	5
Grey-rumped Tree-Swift	Hemiprocne longipennis	L		6	18		>60	15	>50	8		9		>60
White-bellied Swiftlet	Collocalia esculenta		>15		10	1	>20	2	>10	>20	>20	>10		>20
Uniform Swiftlet	Aerodramus vanikorensis Cypsiurus balasiensis	<del> </del>	>10 >10	>30 >2	35		>100 >20	>15	>25	>20	>20	>40		>100
Asian Palm-Swift Blue-headed Wood Kingfisher	Actenoides monachus	-	1				-20							1
Great-billed Kingfisher	Halcyon melanorhyncha	*			***************************************					1				1
Collared Kingfisher	Halcyon chloris	_	7	2	>5		3	4	2	6	2	3_		7
Blue-eared Kingfisher	Alcedo meninting Alcedo atthis	╀	1		_1					1				1 1
Common Kingfisher Rainbow Bee-eater	Merops ornatus	╁╌	10	8	50		2		2	4		2	5	50
Purple-winged Roller	Coracías temminokli	*	4	2	3			4		4				4
Broad-billed Roller (Dollarbird)	Eurystomus crientalis	L		6						1				6
Sulawesi Hornbill	Penelopides exarthatus	ļ.,	-			2 8	6	13	7	1	6	7		2 13
Red-knobbed Hornbill Ashy Woodpecker	Rhyticeros cassidix Mulleripicus fulvus	*	4	2		2	0	1	•	6	1	<del>  ' </del>		6
[Hooded Pitta	Pitta sordida)	T						2		1				2
Pacific Swallow	Hirundo tahitica	Ę		>6						5				>6
Pied Cuckoo-Shrike	Coracina bicolor	*	8	3	2 4			3	4	1	4	6	3	8
White-rumped Cuckoo-Shrike Common Cicadabird	Coracina leucopygia Coracina tenuirostris	+	3	٠,				2	2	<u>, , , , , , , , , , , , , , , , , , , </u>		2		3
Sulawesi Cicadabird	Coracina morio	*	2			2	2	3	1	2	4	4		4
Sulawesi Pied Triller	Lalage (nigra) leucopygialis	*	2						4		1			4
White-winged Triller	Lalage suerii	+-	14		<u>2</u> 3	4	3	4	6	6	5	7		14
Hair-crested Drongo Black-naped Oriole	Dicrurus hottentottus Oriolus chinensis	+-	14 6		4	-	2	6	6	6	4	8	2	8
Slender-billed Crow	Corvus enca	T	3	1	3	2	1	1		7		6	9	9
Piping Crow	Corvus typicus	*	1	2				1_		2				2
	Trichastoma celebense	1	12	10	4	6		6		4		4	4	12
Sulawesi Babbler	<u> </u>		3				1	ļ		2		<u> </u>		2
Pied Bushchat	Saxicola caprata	+-	<b>†</b>											1
	<u> </u>	F		1										
Pied Bushchat Golden-bellied Gerygone Golden-headed Cisticola Black-naped Monarch	Saxicola caprata Gerygone sulphurea Cisticola exilis Hypothymis azurea puella		3	1	3	2	2	6	2	6	1	3	1	6
Pied Bushchat Golden-bellied Gerygone Golden-headed Cisticola Black-naped Monarch Citrine Flycatcher	Saxicola caprata Gerygone sulphurea Cisticola exilis Hypothymis azurea puella Culicicapa helianthea		2		1	2 4	2	6 3	2	1	1	1		6
Pied Bushchat Golden-bellied Gerygone Golden-headed Cisticola Black-naped Monarch Citrine Flycatcher White-breasted Woodswallow	Saxicola caprata Gerygone sulphurea Cisticola exilis Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus			15	1 5			3	2	1 >20	•		1 10	6 4 >20
Pied Bushchat Golden-bellied Gerygone Golden-headed Cisticola Black-naped Monarch Citrine Flycatcher White-breasted Woodswallow Ivory-backed Woodswallow	Saxicola caprata Gerygone sulphurea Cisticola exilis Hypothymis azurea puella Culicicapa helianthea	•	2		1		2		2	1	1	1		6
Pied Bushchat Golden-bellied Gerygone Golden-headed Cisticola Black-naped Monarch Citrine Flycatcher White-breasted Woodswallow	Saxicola caprata Gerygone sulphurea Cisticola exilis Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus Artamus monachus Aplonis minor Aplonis panayensis	•	2	15	1 5 15	4		3		1 >20 8	•	1		6 4 >20 15 7 >9
Pied Bushchat Golden-bellied Gerygone Golden-headed Cisticola Black-naped Monarch Citrine Flycatcher White-breasted Woodswallow livory-backed Woodswallow Short-tailed Glossy Starling Asian Glossy Starling Sulawesi Crested Myna	Saxicola caprata Gerygone sulphurea Cisticola exilis Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus Artamus monachus Aplonis minor Aplonis panayensis Basilornis celebensis	*	2 2	15 12 >9	1 5 15 7		6 9	3 3 6	6	1 >20 8	6	1 1 9		6 4 >20 15 7 >9 7
Pied Bushchat Golden-bellied Gerygone Golden-headed Cisticola Black-naped Monarch Citrine Flycatcher White-breasted Woodswallow lvory-backed Woodswallow Short-tailed Glossy Starling Asian Glossy Starling Sulawesi Crested Myna White-necked Myna	Saxicola caprata Gerygone sulphurea Cisticola exilis Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus Artamus monachus Aplonis minor Aplonis panayensis Basilornis celebensis Streptocitta albicollis	*	2 2 7 4	15 12 >9	1 5 15	3	6 9	3 3 6 6	6 2	1 >20 8 1 3	6	1 1 9 1		6 4 >20 15 7 >9 7 6
Pied Bushchat Golden-bellied Gerygone Golden-headed Cisticola Black-naped Monarch Citrine Flycatcher White-breasted Woodswallow Ivory-backed Woodswallow Short-tailed Glossy Starling Asian Glossy Starling Sulawesi Crested Myna	Saxicola caprata Gerygone sulphurea Cisticola exilis Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus Artamus monachus Aplonis minor Aplonis panayensis Basilornis celebensis	*	2 2	15 12 >9	1 5 15 7	4	6 9	3 3 6	6 2	1 >20 8	6	1 1 9	10	6 4 >20 15 7 >9 7

SQUARE	5		<u> </u>											<del> </del>
DATE			26/6	26/6	27/6	27/7	27/7	28/7	28/7	29/7	29/7	30/7	30/7	Max
			]					[		1	<u> </u>			Count
SURVEY TIME			270m	170m	50m	330m	90m	360m	110m	330m	180m	210m	80m	
COMMON NAME	SYSTEMATIC NAME							ļ						
Olive-backed Sunbird	Nectarinia jugularis		6	9	10	4	>10	8	1	14	5	10	11	14
Crimson Sunbird	Aethopyga siparaja		1	3	2	1		3		3	2_			3
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	*	4		2	8	>20	8		2	3_	2	5	>20
Grey-sided Flowerpecker	Dicaeum celebicum	•	3		5	3		6	2	4	4	3		6
Lemon-bellied White-Eye	Zosterops chloris	wa	25	1	6	2	4	4	6	23	9	3	7	25
Pale-bellied White-Eve	Zosterops consobrinorum	*	15	1	5			6	12	12		18		18
Black-faced Munia	Lonchura molucca	**	9		30			5		>20			17	30
Scaly-breasted Munia	Lonchura punctulata		5	2						>20		3	1	>20
Chestnut Munia	Lonchura malacca				50									50
Reed-Warbler species	Acrecephalus species		1											1
TOTAL SPECIES: 87		$\dashv$												
SULAWESI ENDEMICS: 30														1
INDONESIAN ENDEMICS: 5	The state of the s					1								1
TOTAL TIME: 22h40m						1							<u> </u>	1
TEAMS: 2	1					Ì							<u>i i</u>	<u> </u>

SQUARE	8		Ī	l l	
DATE	A THE OWNER AND ADDRESS OF THE OWNER AND THE	29/8	29/8	29/8	Max
And the course of the course o			]	ì	Count
SURVEY TIME		120m	240m	30m	
COMMON NAME	SYSTEMATIC NAME		ļ		
Greater Frigatebird	Fregata minor			1	1
Lesser Frigatebird	Fregata ariel	9	17	63	63
Great-billed Heron	Ardea sumanatrana		1		1
Purple Heron	Ardea purpurea				1 1
Striated Heron	Butorides striatus		2		2
Osprey	Pandion haliaetus	11	ļ <u>.</u>		1_1
Brahminy Kite	Haliastur indus	2_	3		3
White-bellied Sea-Eagle	Haliaeetus leucogaster	11	3		3
Sulawesi Serpent-Eagle	Spilornis rufipectus		1_1		<u> </u>
Spot-tailed Goshawk	Accipiter trinotatus		1_1_	<u></u>	11
Marsh Sandpiper	Tringa stagnatilis		2	<del>-</del>	2 4
Common Sandpiper	Actitis hypoleucos	4	32	>15	32
Great Crested Tern	Sterna bergii		1	710	
Spotted Dove	Streptopella chinensis		6		6
Slender-billed Cuckoo-Dove	Macropygia amboinensis Treron vernans	1	6	1	6
Pink-necked Green Pigeon			7		7
White Imperial Pigeon	Ducula luctuosa		6		6
Ornate Lorikeet	Trichoglossus ornatus  Loriculus stigmatus	*	10		10
Sulawesi Hanging-Parrot	Loriculus stigmatus  Loriculus exilis		1		1 1
Green Hanging-Parrot	Phaenicophaeus calyorhynchus		2		2
Fiery-billed Malkoha Lesser Coucal	Centropus bengalensis		1		+-1-
Bay Coucal	Centropus celebensis		2		2
Grey-rumped Tree-Swift	Hemiprocne longipennis		11		11
Uniform Swiftlet	Aerodramus vanikorensis		17		17
Great-billed Kingfisher	Halcyon melanorhyncha	* 2	2		2
Collared Kingfisher	Halcyon chloris	1 3	4		4
Sacred Kingfisher	Halcyon sancta		1		1 1
Broad-billed Roller (Dollarbird)	Eurystomus orientalis	1 1			1 1
Ashy Woodpecker	Mulleripicus fulvus	-	1	1	1 1
Pacific Swallow	Hirundo tahitica		>20		>20
White-rumped Cuckoo-Shrike	Coracina leucopygia		9		9
Hair-crested Drongo	Dicrurus hottentottus		2		2
Black-naped Oriole	Oriolus chinensis		6		6
Slender-billed Crow	Corvus enca	1	3		3
Sulawesi Babbler	Trichastoma celebense	*	1		1
Golden-bellied Gerygone	Gerygone sulphurea	1	6		6
Zitting Cisticola	Cisticola juncidis		2		2
Golden-headed Cisticola	Cisticola exilis		3		3
Black-naped Monarch	Hypothymis azurea puella		1	Ì	1
Mangrove Whistler	Pachycephala grisola		7		7
White-breasted Woodswallow	Artamus leucorhynchus		9		9
White-necked Myna	Streptocitta albicollis	* 1			11
Brown-throated Sunbird	Anthreptes malacensis	3	12		12
Black Sunbird	Nectarinia aspasia		7_		7
Olive-backed Sunbird	Nectarinia jugularis	11	15		15
Crimson Sunbird	Aethopyga siparaja	1111			1 1
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	*	4		4
Grey-sided Flowerpecker	Dicaeum celebicum	<u> </u>	11		11
Lemon-bellied White-Eye	Zosterops chloris	** 2	16		16
					<u> </u>
TOTAL SPECIES: 50					-
SULAWESI ENDEMICS: 15	The fields of the field of the relationship and the relationship are the same are the same and the same are t				ļ
INDONESIAN ENDEMICS: 1	THE PROPERTY OF THE PROPERTY O				
TOTAL TIME: 6h30m					
TEAMS: 1	<u> </u>				

SQUARE	13					ľ	-	-		-		F	
DATE CONTROLL OF THE PROPERTY		25/7	7 01/8	28/8	12.9	18/9	19/9	2/10/23	10 29/	19/9 22/10 23/10 29/10 31/10 06/11 21/11	06/11	21/11	Max
					-		-						ta C
SURVEY TIME		2 <del>4</del> 0	n 575m	315m	<del>0</del> 2	30m	240m 33	240m 575m 315m 405m 300m 240m 330m 255m	5m 28C	280m 170m	1 300m 330m	330m	
COMMON NAME	SYSTEMATIC NAME	_					1						re bergere de la constante de
Woolly-necked Stork	Ciconia episcopus		က	F	4		-	-	-		-		*
Black-shouldered Kite	Elanus caeruleus	-	-				-	-	-	-			<b>1</b>
Brahminy Kite	Halaster Indus		to the second second									-	- -
White-bellied Sea-Eagle	Hallaeetus leucogaster	-	-			-	,		-	-	-		
Lesser Fish-Eagle	Ichthyophaga humilis		and the same of th				1		-				
	Ichthyophaga ichthyaetus		-	-		+		-	-	-			
Sulawesi Serpent-Eagle	Spilornis rufipectus	9	2	2	2	6	c	1		+	-	c	- 0
	Accipiter griselceps					)	)	-		- -	-	7	7
łk	Accipiter trinotatus				-	-	Consiste or speciment of manual		-		***************************************		- -
	Accipiter nanus		-	2	-			-	-				-
rrowhawk	Accipiter rhodogaster		dadar remains a second	-									4 +
Eagle	Hleraaetus klenerii	_			-	-		-	Managed Co. and Superson				
d Kestrel		+	-		2	- Inches	- therease and the same and the	-			-		- 6
	Macrocephalon maleo				2	2	8	26 15	5	101		c	4 20
	Gallus gallus	-				+	-		+		*	7	8 .
	Amaurornis isabellinus	-	-	-		<del>-</del>		-	-		-		
White-breasted Waterhen	Amaurornis pheonicurus				1	-	-	4	-				- *
ike	Porzana fusca	-	-					-	-				1 4
Common Sandpiper	Actitis hypoleucos					-	-	-	-				-
	Streptopelia chinensis	2	2	-		•		ıc.	LC.	-	٥	,	- u
ø	Macropygia amboinensis	-		2	9	2	6	4	-	- Hermanian		1 4	) ע
Dove	Turacoena manadensis	-	+		1	3	2	1 2	-	C	1	r	0 %
leon	Chalcophaps indica			2			-				•		
defending the section of the section	Chalcophaps stephani	-		5		7	-	-	-	-			2
		- Carrier Control Control		7									
		*		7			ι,	22   7	7		4		22
ove	Pilnopus subgularis	-	-									and the same of th	1
	Pfinopus melanospila	7	-	ဖ		<b>Ф</b>	ಭ	9 14	**		15	12	15
	***************************************	_		၈	2	က			-			2	က
Fink-headed Imperial Figeon	Ducula rosacea	9	12	6	ĸ	15			-	-	17	>17	ĸ
	Uscula luciusa		- Andrews	A PERSONAL PROPERTY.				2 2	က	7		~	7
Cilgins   Landis David	I nchodiossus ornatus	9		ഗ	6	က	2				5	2	9
	Coriculus stigmatus			က	2	5	၈	2	<u> </u>		[		6
Green Hanging-Parrot	Loriculus exilis		**	7	<b></b> -	_		7	-	-			4
Golden-mantled Kacket-tailed Parrot	Prioniturus platurus	<u>ი</u>	9	18	엏	<u>v</u> 4	12		Ļ	15	16	12	2
Great-billed Parrot	Tanygnathus megalorynchos	-		4		2		2	4	5	10		10
Blue-backed (Muller's) Parrot	Tanygnathus sumatranus				ល				2	Pharmacon Lands	2	+	ĸ
Uriental Cuckoo	Cuculus saturatus				1						-		1
Figure Cuckoo		4		-			-	1 2	က	2	2		4
irronesian Cuckoo		*		-	-			_					-
Liongo Cuckoo	Surniculus Ingubris	-		2	2	-	<b>~</b>	-	2	-		7	2
								The state of the s					

SQUARE	13		-		-	-	-	***************************************			-				
DATE		N	25/7 0	01/8 2	28/8	12.9	18/9	19/9 2	2/10/2	3/10/2	9/10	22/10/23/10/29/10/31/10/06/11 21/11	2011	21/11	Max
SIIBVEY TIME		6	240m F75m	The sa	215m	4) E.m. 2	S C C	240m	3000	2	00	2	Ę	i c	Count
		7	2	2	7 2	<u></u>	3	2 - 2	3	7 1 1 1 1 1		2	3	S S	
COMMON NAME	SYSTEMATIC NAME		-												and the liberty of the standard of the standar
Black-billed Koel	Eudynamys melanorhyncha		-		-	<u>ო</u>	7	ო	2	7	7		ო	<del>ن</del>	ო
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	*	4	വ	က	_		-				വ	7		ഗ
Lesser Coucal	Centropus bengalensis			_			<b>—</b>	2	2	ო	7			4	4
Bay Coucal	Centropus celebensis	*	4	7	9	8	õ	4	~	4	4	11	9	9	1
Satanic Nightiar	Eurostopodus diabolicus	•							22						23
Grey-rumped Tree-Swift	Hemiprocne longipennis			ო	6	9	တ	ဖ			=	8	14	δ,	18
White-bellied Swifflet	Collocalia esculenta		2			ro -	× 100	<u>ო</u>			o.	-			× 130
Moluccan Swiftlet	Aerodramus Infuscatus						8	_							8
Uniform Swiftlet	Aerodramus vanikorensis	_	છ્ય				252		o		ហ	-		ო	>52
Ruddy Kingfisher	Halcyon coromanda				-		-		<del> </del>			-		-	-
Great-billed Kingfisher	Halcyon melanorhyncha	1				The second secon	2	-			-		-		2
Collared Kingfisher	Halcyon chloris		7	4	မ	4	7	<u>ო</u>	6	2	4	S	4	က	7
Blue-eared Kingfisher	Alcedo meninting										-				_
Common Kingfisher	Alcedo atthis		1-MI-TH			-				-			-		1
Rainbow Bee-eater	Merops ornatus	_	>10	윲	7		4	-	-		-				ξ,
Purple-winged Roller	Coracias temminckii				က				2		2	2	2	+	3
Broad-billed Roller (Dollarbird)	Eurystomus orientalis		+								-				
Sulawesi Hornbill	Penelopides exarthatus	1	_		-	1	2		-	2		-	***************************************		2
Red-knobbed Hornbill	Rhyticeros cassidix	*	ഗ	4	4	8	_		n	<b>е</b>	9		10	သ	18
Ashy Woodpecker	Mulleripicus fulvus	7	D.	က	7	<del> </del>	က	<b>*</b>	~	4	-	9	_		7
Red-bellied Pitta	Pitta erythrogaster					-			_	-	-	7	4	-	4
Pied Cuckoo-Shrike	Coracina bicolor	*	2	7	4			-	2	4	-	9	4	+	D.
White-rumped Cuckoo-Shrike	Coracina leucopygía	*	ય	ო	7	ဖ	æ	4	9	<del>ن</del>	4	4	9	ო	8
Common Cicadabird	Coracina tenuirostris					_	2	-			<u>е</u>			-	m
Sulawesi Cicadabird	Coracina morio		_		က	ო	4	4	က	၈	7	ဖ	-	~	9
Sulawesi Pied Triller	Lalage [nigra] leucopygialis				7						7	-			2
Hair-crested Drongo	Dicrurus hottentottus		ပ	7	6	6	æ		၈	ß		<b>o</b>	<b>o</b>	S.	G
Black-naped Oriole	Orlolus chinensis		4	_	9	တ	11	7		7	4	2			-
Siender-billed Crow	Corvus enca		=	- 9	7		4	7	Ω.		7		4		<del>-</del>
Piping Crow	Corvus typicus	*										-			<b>,</b> -
Sulawesi Babbler	Trichastoma celebense				>12	<b>О</b>	æ	٠ <del>1</del> 0	10	o	ဖ	स	Ţ	>12	15
Pied Bushchat	Saxicola caprata				-		က			7	-				ო
Golden-bellied Gerygone	Gerygone sulphurea	_		_											-
Golden-headed Cisticola	Cisticota exilis									က	-				0
Aslan Brown Flycatcher	Muscicapa latirostris				-								ღ		ന
Black-naped Monarch	Hypothymis azurea puella		<u> </u>		မ	<b>س</b>	က	<del></del>		য়	- -	೯	υ	<b>е</b>	æ
Citrine Flycatcher	Culicicapa helianthea	_			ო	7	വ	ო	7	4	4	ব	က	ო	7
Rusty-bellied Fantail	Rhipidura teysmanni	•		-											_
Yellow Wagtail		1			-	***********			က					-	ო
Grey Wagtall	Motacilla cinerea		- Individual of the last of th	The state of the s	***************************************		The state of the s			-	- University University	1		<b>***</b>	_
White-breasted Woodswallow	Artamus leucorhynchus		12	-	의		2	7		0	6		=		12

SURVEY TIME  COMMON NAME Christmas Island Frigatebird Lesser Frigatebird Lesser Frigatebird Striated Heron Soprey Brahminy Kite Sulawesi Serpent-Eagle Hallast Sulawesi Serpent-Eagle Hallast Sulawesi Serpent-Eagle Hallast Sulawesi Serpent-Eagle Hallast Sulawesi Serpent-Eagle Hallast Sulawesi Serpent-Eagle Hallast Sulawesi Serpent-Eagle Hallast Sulawesi Serpent-Eagle Falco n Oriental Hobby Falco n	SYSTEMATIC NAME Fregata andrewsi Fregata andrewsi Fregata artel Butorides striatus Ciconia episcopus Pandion halitaetus Pandion halitaetus Falmus caerulus Accipiter griselceps Accipiter griselceps Accipiter griselceps Accipiter griselceps Falco molluccensis Falco molluccensis Falco peregrinus Gallus gallus Gallus plateni Aramidopsis plateni Aramidopsis plateni Amaurornis isabellinus	19/6 60m 1	19/6 20/6 160m 220m	/6 20/6 Jm 195m	28/6 330m	28/6 29 180m 120	29/6 01/7 120m 300m	7 02/7 n 330m	02/7 0		04/7 24/7 255m 150m		31/7	h			18/9 24/10	0 24/10
I NAME Fregat Fregat Fregat Clonic Clonic Clonic Clonic Clonic Clonic Fregat State Clonic Fregat State Fregat Freg	SYSTEMATIC NAME  La andrewsi ta ariel des striatus la episcopus on halilaetus on halilaetus tur indus tur indus tur indus ter griselceps ter fhodogaster ter fhodogaster ter modogaster ter griselceps te	60m	······································		330m				·					+				0 24/
I NAME Fegating Pregating Particular Cloud Cloud Particular Partic	SYSTEMATIC NAME  Is andrews!  Is ariel  des striatus  Is episcopus  on heliactus  on thilactus  servicios  ter fhodogaster  ter fhodogaster  ter fhodogaster  ter frodogaster  ter frodogaster  moluccensis  severus  peregrinus  peregrin	600		ئے۔انے	330m												<b>†</b> ···	-
regat retebird Fregat Butorid Ciconi Pandio Pandio Flanus respite Accipit Accipit rowhawk Accipit Accipit retinae	SYSTEMATIC NAME  ta andrewsi  ta ariel  des striatus  des striatus  is episcopus  on halitaetus  on caerulous  tur indus  nis rufipectus  ter rhodogaster  ter		100000000000000000000000000000000000000		1.1.1			-	-	390m 25		m 150m			_	_	-+-	
atabird gle gle	la andrewsi la ariel des striatus des striatus la episcopus no halifiaetus tur indus nis rufipectus ter griselceps ter frodogaster tus malayensis tetus kenerii moluccensis severus peregrinus peregrinus lulus forquatus dopsis plateni fornis isabelitrus			and other name of the land of	4				<del></del>					·-i	noce L	os meri	90m 120m	ո 135m
gle Trowhawk	des striatus des striatus on hallisetus on hallisetus secretuleus tur indus nis rufipectus ter griselceps ter rhodogaster tus malavensis tetus kienerii moluccensis severus peregrinus peregrinus orgalius torquatus dopsis plateni formis isabellinus		1		4 Dirds &	seen off sho	shore from	Maligano	the 34	24/2/02								
gle Trowhawk	a episcopus a palitatus s caerulous tur indus nis rufipectus ter grisoloeps ter rhodogaster tus malayensis ettus kienerii moluccensis sevenus peregrinus peregrinus gallus terguilus forquatus dopsis plateni fornis isabellinus		_			<b>-</b>			2	000	-	_				-		
gle Trowhawk	on halliaetus s caeruleus tur indus nis rufipectus ter griselceps ter rhodogaster tus malavensis tetus kienerii moluccensis severus peregrinus peregrinus tetus kienerii moluccensis severus severus cetus kienerii moluccensis severus cetus kienerii moluccensis severus cetus kienerii moluccensis severus cetus kienerii orenis isabellinus ornis pheonicurus		Transmission of the second	A STATE OF THE PERSON OF THE P		(7)		-		-			-			·	1	-
gle Trowhawk	tur indus nis rufipectus nis rufipectus ter griselceps ter rhodogaster ter rhodogaster ter rhodogaster ter rhodogaster moluccensis severus peregrinus peregrinus gallus lus forquatus dopsis plateni fornis isabellinus		The section of the se		-	THE PERSON NAMED IN COLUMN	2	-		-		- Anna Carrent Control of the Contro	٠-	***************************************	-		n	-
gle rrowhawk	tur indus nis rufipectus ter griselceps ter rhodogaster teur hodogaster teur malayensis teur hodogaster teur malayensis severus severus severus severus severus gallus forquatus dopsis plateni fornis isabellinus ornis pheonicurus				-	-							•		-	-		
ije rrowhawk	is ruflpectus ter griselceps ter friodogaster tus malayensis tetus kenerii moluccensis severus peregrinus peregrinus o gallus dopsis plateni dopsis plateni fornis isabellinus		-		in distance participant property in the last				Tarabal (manage					+			-	-
Towhawk	ter griseiceps ter fhodgaster tus malayensis moluccensis severus peregrinus t gallus tillus torquatus dorsis plateni fornis sabellinus		•	4-	,	-	2	1	-			+	-	-		2	-	-
rowhawk	ler rhodogaster ilus malayensis etus kienerli moluccensis severus geilus ligalius illus torquatus dopsis plateni dornis isabellinus ornis pheonicurus		-	-		and officers of the sections of	***************************************	-		2				-	2	-	+	-
	tus malayensis tetus kienerii moluccensis seyerus peregrinus gallus illus torquatus dopsis plateni rornis isabellinus	The control of the co	-	The second secon		The second secon		-	-						A CONTRACTOR OF THE PERSON OF			1
	letus kienerii moluccensis sevenus peregrinus i gallus lus torquatus dopsis plateni rornis isabellinus	The state of the s								-	***************************************			-		-		-
Parties Television in the Balance of the State of the Sta	moluccensis sevorus peregrinus galius galius torquatus dopsis plateni fornis isabellinus					-	-	1		+	-	-				-	-	-
An article of the state of the	severus peregrinus gailus gailus forquatus dopsis plateni fornis isabellinus		-		-		*PHIRITAGE CONT.				Andrews of the Party of the Par		-	_		_	_	-
	peregrinus gallus lus forquatus dopsis plateni fornis isabellinus fornis pheonicurus					-	-	1	+	+	+	1						
The second secon	gailus Illus torquatus dopsis plateni rornis isabellinus rornis pheonicurus					The state of the s	rathernor of American parts		Alberta Land Control of Control o	-	and the second second		The state of the s				_	_
the state of the s	illus forquatus Jopsis plateni Ornis isabellinus Ornis pheonicurus	-			-	- de la constitución de la const	Martin	-	A CONTRACTOR OF THE PERSON NAMED IN COLUMN		-						The state of the s	
	Jopsis plateni Tornis isabellinus Tornis pheonicurus					***************************************	***************************************	-	-		-							
- Charles	ornis isabellinus fornis pheonicurus	4						-	-	1	+	2	~		-		_	e
	ornis pheonicurus	-		2	-			+	-		+	-			_	_		-
***************************************	Add to the state of the state o				And of the owner, washing of the owner,			-	***************************************	-	***************************************						-	-
SOLD COMMENTS	Calidris alpina				G	Single bird case of Maliana	A Se Comp.	The second	144100	-	-	-			5		2	
	Phalaropus lobatus		9	birds se	en off sh	re from Mo	from Mollopo 40,000	2 2 2 2 2 2	2 2	-						-		
	Tringa totanus		-	-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	250	06/67	***************************************	***************************************	1							
and the second s	Actifis hypoleucos							1	-	1	+						-	-
t en mai de primer a ser en en en entre de capació person se entre de la circumienta de sanciano for presente	Giareoia maldivarum					***************************************		-	***************************************				2	-	-		2	_
Term	Steins had						Limit for the latest and the latest				-			***************************************		-		
	Starra handelende										-		-	Terreta de la constitución de la				
A Commence of the name of principal	Strentonella chinansie	-	1				-		-	-	-			-	+	-		
	Macropygia amboinanele		4	ß		2 2	S	0	2	5	-	The state of the s	-		-	-		
	Turacoena manadonsis		White the second	4	-			1	2	ļ.,	2			,	+	- -	- -	7
900	Chalcophaps Indica		**************************************	D	+	management of the close of the contract of the							-	The state of the s		7	٥	ი
Dipt. necked One Di	Chalcophaps stephani					The state of the s	***************************************		_						<u> </u>	¥	-	
***************************************	Freron vernans								+	+	+				-	Victoria de la constitución de l	•	
	Feron griseicauda	**	13	***************************************		Total Control of the last of t	-		Manager (bed programme special	- Transcription of the Personal	a Principal de Carpon () ( Carpon de Carpon ()						-	
DAGE	Functions melanospila	18		n			-				*		The state of the s	-	12 1		7	- Andrewson of the last of the
	radiata	-	2					the second second	-	-	-	-			4		4	۲
	Ducula concinna	**		- :		į					-	Commence of the Commence of	-	•	7		-	4
	Ducula rosacea		7 0	Sirds	seen ust south	o	Maligano 27/6/96	96/		-	- Automatical Parts	-	Attended to the second	***************************************	-	The second secon	-	- Plankel manage p
	bcolor	45	•	6	- Control House Section		7	3			>20	-37	4	000		-	;  -	!
Ngeon.	Ducula luctuosa		**************************************	***************************************		1							Total Control of the least of t	2		27		18
	Tichoglossus ornatus	-		11	***************************************	27	-	ю			12		10	-		270	ţ	r
ě	Trichoglossus flavoviridis	+	+	r	+	- -	2	ဆ	5	2	2	2	4	2	14	o u	2 0	•
ıot	Loriculus stigmatus					-		-					-	╁-	+-	-	,	4
7	oriculus exilis	├-	2 1	1	y c	_		-	^		-	4	2	6	9		-	•
Great-hilled Dozzal	Prioniturus platurus	* 20 9	Ë	37	-	2 >10	41	<u> </u>	7		-	+	2	-		ļ	_	2
7s) Parrot	Fanygnathus megalorynchos	5	2	-	-	+-	-	?		*2	7 ,	G)	S	2 5		4	2	12
	Cucility craceirostria	1	-				2	2		+	-		-	- 5		0	ო	ന
	o cipagnosina		-	-					-	-			+	-		-	2	

SYSTEMATIC NAME   C5m 300m 120m 170m 180m 250m 170m 180m 180m 250m 170m 180m 180m 250m 170m 180m 180m 250m 170m 180m 180m 180m 180m 180m 180m 180m 18	SQUARE			-						r	-	L
COMMON NAME	DATE		25/10	28/10	28/10	30/10	06/11	11///0	19/11	20/11 20/11	20/11	Max
COMMON NAME	SURVEY TIME		į		9						***	Count
COMMON NAME	annin uranantijaljahajir sirikissa in manantijaljahajir sirikista kan kan kan kan kan kan kan kan kan ka	man to the state of the state o	ES.		120m	1,0m	180m	250m	120m	120m	20m	***************************************
Trigglate and reveal   Trigglate and reveal   Trigglate and reveal   Trigglate and reveal   Trigglate and reveal   Trigglate and reveal   Trigglate and   Tr	COMMON NAME	SYSTEMATIC NAME			The state of the s				***************************************			-
Figure a rise	Christmas Island Frigatebird	Fregata andrewsi		-		-	-		-			4
Pleaning   Bundless stitutus   S   S   S	Lesser Frigatebird	Fregata ariel							9	T	-	ın
Colonia episcopus   1   1   1   1   1   1   1   1   1	Strated Heron	Buforides striatus		r)						_	- Annual management	s
Paraldon malestus   Paraldon malestus   Paraldon malestus	Woolly-necked Stork	Ciconia episcopus		Ψ-								2
Failure aceruleus	Osprey	Pandion halijaetus										1
Accipiter griselesps   3   2   1   1   1   1   1   1   1   1   1	DISCK-Shouldered Kite	cianus caeruleus										1
Acolpiter diselectes         *         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         4         3         5         1	Dranminy Kite	Haliastur indus		က		2						6
Accipiter giselceps         -           Accipiter throdogaster         -           Interactus kienerii         -         5         5         1           Falco severus         -         5         5         1           Falco severus         -         1         2         1         1           Falco severus         -         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         4         3         5         1         4         3         5         1         4	Sulawest Serpent-Eagle	Spilornis rufipectus					-	1				2
Acipiter rhodogaster   Citinactus malayersis   Citinactus kilentasis   Citin	Sulawesi Goshawk	Accipiter griseiceps	•							+		-
Interceptus malayensis	Vincus-breasted Sparrowhawk	Accipiter rhodogaster	*									
Hieraactus klenerii	Black Eagle	Ictinaetus malayensis								+		+
Falco moluccensis	Rufous-bellied Eagle	Herazetus Kenerii									-	
Falco severus         7 alco severus           Gallus gallus         1         2         1           Gallus gallus         4         2         1           Gallus gallus         1         2         1           Aramidopsis plateni         1         2         1           Amauronis isabellinus         1         2         1           Amauronis isabellinus         1         2         4           Caldidis alpina         1         2         4           Caldidis alpina         1         2         4           Caldidis alpina         2         2         4         3         5           Caldidis alpina         4         2         4         3         5         1         4         4         4         4         4         4         4         4         4         4         4         5         5         2         1         6         6         1         6         1         6         1         4         3         5         1         6         2         1         6         2         1         6         2         1         6         1         1         4         1         4 <td>Spotted Kestrel</td> <td>Faico moluccensis</td> <td>1</td> <td>ഹ</td> <td>2</td> <td></td> <td></td> <td>+-</td> <td></td> <td>The state of the s</td> <td></td> <td>ĸ</td>	Spotted Kestrel	Faico moluccensis	1	ഹ	2			+-		The state of the s		ĸ
Falco peregrinus   1   2   1     Gallifallus proquatus   1   2   1     Gallifallus proquatus   1   2   1     Gallifallus proquatus   1   1   1     Amauromis isabellinus   1   1   4     Calairens alohaus   1   1   6     Calairens lobatus   1   1   6     Tringa tolarus   2   4   3   5     Calairens bergili   1   2   1   6     Sterna bergili   2   1   2   1   6     Sterna bergili   2   1   2   1   6     Calacophaps indica   1   1   1   6     Chalcophaps indica   1   2   1   6     Chalcophaps indica   1   2   1   6     Chalcophaps stephani   1   1   2   1     Treron vernans   1   2   2   3     Treron yernans   1   2   2   3     Treron yernans   1   2   2   3     Treron yernans   1   2   2   3     Treron vernans   1   2   3   3     Treron vernans   1   3   4   5     Treron vernans   1   4   5   5     Treron vernans   1   5   5   5     Treron verna	Offental Hobby	Falco severus	-									-
Gallius gallus         1         2         1           Gallulus broquatus         4         2         1           Armidopsis platent         "         1         4           Amauronis labelinus         "         1         4           Amauronis pheoricurus         "         1         4           Calidris alpina         "         4         4           Andarophis lobatus         "         5         7         2         4           Actitis hypoleucos         Sterna bergil         "         2         4         3         5           Sterna bergil         Sterna bergil         "         2         4         3         5           Sterna bergil         Sterna bergil         "         2         4         3         5           Sterna bergalarosis         "         2         4         3         5         7         1         6           Turaccenta mandensis         "         2         4         3         5         2         1         6           Chalcophaps stephanl         "         "         2         4         3         5         1         6           Chalcophaps stephanl         "		Falco peregrinus					-		-	-		-
Aramidous borquatus Aramidous porquatus Aramidous pheonicurus Aramidous pheonicurus Calidris alpina Phalaropus lobatus Tringa tohauus Tringa tohauus Actitis hypoleucos Glarecia maddvarum Sterna hirundo Sterna hirundo Sterna bergil Sterna hirundo Sterna bergil Sterna hirundo Sterna hirundo Sterna bergil Sterna hirundo St				1	Wilder of the Party of the Part	7		-			-	7
Amaurornis jabatenii         " 1           Amaurornis jabateniius         " 1           Amaurornis jabateniius         " 1           Calidris alplia         " 1           Calidris alplia         " 1           Calidris alplia         " 2           Calidris alplia         " 2           Calidris alplia         " 2           Actitis hypoleucos         5           Glarcola maldivarum         " 2           Sterna hirundo         " 1           Sterna bergil         " 2           Sterna bengalensis         " 2           Sterna bengalensis         " 2           Sterna bengalensis         " 4           Sterna hirundo         " 6           Sterna bengalensis         " 2           Sterna bengalensis         " 2           Sterna bengalensis         " 2           Chalcophapa indica         " 2           Chalcophapa indica         " 2           Chalcophapa indica         " 2           Pulling forsteni         " 2           Ducula forsteni         " 2           Ducula concluna         " 16           Ducula concluna         " 16           Ducula concluna         " 16           D	Sanda Sall	Gailleanus forquatus		4						-		4
Amaurornis isabellinus         *         1         4           Calidris aplica         *         4         4           Calidris aplicatus         5         *         6           Tringa totanus         5         *         6           Actitis hypoleucos         5         *         6           Glareola maidivarum         \$         5         *         *           Sterna hitundo         \$         *         *         *         *         *           Sterna bengalensis         *		Aramidopsis plateni	*								-	-
Amaurornis pheoricurus         4           Calidris alpina         6           Phalaropus lobatus         5           Tringa tolarus         5           Actitis hypoleucos         5           Sterna hirundo         6           Sterna bergal         1           Sterna bergal         1           Sterna bergal         2           Sterna bergal         1           Sterna bergal         1           Sterna bergal         2           Amacropygla amboinensis         2           Turaccena manadensis         2           Treron compania         4           Treron griselcauda         4           Treron griselcauda         4           Pilinopus melanospila         6           Pilinopus melanospila         6           Ducula forsteni         7           Ducula radiata         7           Ducula forsteni         7           Ducula rosacea         7           Ducula forsoce         7           Ducula forsoca         7           Ducula forsoca         7           Ducula forsoca         7           Ducula forsoca         7           Ducula forso		Amaurornis isabellinus	*	-								7
Calidris alpina   Calidris alpina	White-breasted Waterhen	Amaurornis pheonicurus						4		-		4
Phalaropus lobatus         Phalaropus lobatus         6           Actitis tolanus         5         6           Actitis byzoleucos         6         6           Glarous madivarum         5         7           Sterna hirundo         1         7           Sterna bergil         1         7           Sterna bergalensis         1         7           Sterna bengalensis         2         7         2           Macropygia amboinensis         2         7         2         1         6           Macropygia amboinensis         2         7         2         4         3         5         5         7         1         6           Macropygia amboinensis         2         2         4         3         5         7         1         6         7         4         3         5         7         1         6         7         1         6         3         5         2         1         1         6         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	CUMIN	Calidris alpina							-		-	-
Tringa totanus         5         Catitis hypoleucos         5         Catitis hypoleucos         6         6         6         7	Red-necked Phalarope	Phalaropus lobatus						-				**
Actitis hypoleucos   Scarra maldivarum   Sterra bitundo   Sterra bitundo   Sterra bitundo   Sterra bitundo   Sterra bengalensis   1	Common Redshank	Tringa totanus						-	T	+		-
Glareola maldivarum         Sterna hitundo           Sterna hitundo         Sterna hitundo           Sterna bengalensis         1           Sterna bengalensis         1           Sterna bengalensis         2           Streptopelia chilensis         2           Macropygla ambolinensis         2           Macropygla ambolinensis         2           Macropygla ambolinensis         2           Chalcophaps stephani         1           Treron priselicanda         1           Treron griselicanda         1           Pitinopus melanospila         6           Pullinopus melanospila         6           Ducula forsteni         1           Ducula conclina         6           Ducula forsteni         1           Ducula rosacea         1           Ducula incluosa         1           Ducula incluosa         1           Trichoglossus floravoviridis         2           Loriculus stigmatus         1           Priconius stigmatus         1           Priconius stigmatus         1           Priconius stigmatus         1           Priconius stigmatus         1           1         2	Common Sandpiper	Actitis hypoteucos		ъ			T		Ī	6	c	
Sterna hiundo         Sterna hiundo           Sterna bergili         1         6           Sterna bergili         1         7         2         1         6           Sterptopella amboinensis         2         7         2         1         6           Macropygla amboinensis         2         7         2         1         6           Chalcophaps stephani         2         4         3         5           Chalcophaps stephani         7         2         4         3         5           Treron versiona         7         12         2         4         3         5           Chalcophaps stephani         7         2         4         3         5           Treron versiona         8         5         11         2         3           Ducula forsiona         8         5         1         2         2         3           Ducula forsiona         9         13         15         2         3         2           Ducula focior         7         6         9         5         2         3         2           Ducula focior         7         14         4         10         9	Oriental Pratincole	Glareola maldivarum						-		-		,
Sterna bergil         Sterna bergil           Sterna bengalensis         1           Sterna bengalensis         1           Sterptopydia ambolinensis         2         4         3         5           Turaccona manadensis         2         4         3         5           Chalcophaps indica         2         4         3         5           Chalcophaps stephanl         1         1         25         1           Teron vernans         Teron vernans         1         2         4         3         5           Tierophaps stephanl         "         2         4         3         5         2           Pillinopus malanda         "         8         5         1         3         1           Ducula forsteni         "         8         5         2         3         1           Ducula conclina         "         19         13         15         2         1           Ducula conclina         "         16         9         5         2         1           Ducula conclina         "         16         9         5         2         1           Ducula conclina         "         16         9<	Common Tern	Sterna hirundo				-					7	7
Sterna bengalensis         1         7         2         1         6           Macropopla amboinensis         2         7         2         1         6           Turacoena manadensis         2         7         2         1         6           Chalcophaps indica         2         4         3         5         5         1         6         6         1         6         1         6         1         6         1         1         6         1         1         6         1         1         6         1         2         3         2         1         2         3	Great Crested Tern	Sterna bergii			-			-	-		7	7
Streptopelia chinensis         1         7         2         1         6           Macropygla amboinensis         *         2         4         3         5           Chalcophaps indical cophaps stephanl         *         2         4         3         5           Chalcophaps stephanl         *         *         4         3         5           Treron vernans         *         *         *         *         5         1         5         3           Treron vernans         *         *         *         *         *         5         1         25         3           Pitinopus melanospila         *         *         *         *         5         2         3           Ducula radista         *         *         *         *         5         2         3           Ducula radista         *         *         *         *         5         2         14           Ducula radista         *         *         *         *         5         2         2         14           Ducula concinna         *         *         *         *         *         *         *         *         *         *	Lesser Crested Tern	Sterna bengalensis					-				4	4
Macropygia ambolinensis         5         7         2         1         6           Turaccena manadensis         *         2         4         3         5           Chalcophaps indica         *         1         *         5         5         5           Chalcophaps stephani         *         *         *         *         *         5         5         5         5         *         *         *         5         *	Spotted Dove	Streptopelia chinensis		-	-	-			4	-		- 4
Turaccena manadensis   2   4   3   5     Chalcophapa indica	Siender-billed Cuckoo-Dove	Macropygia amboinensis		S	_	7	-	9	m	-		5
Chalcophaps indica         Chalcophaps stephani         1         2         2         2         2	White-faced Cuckoo-Dove	Turacoena manadensis	4	~		4	m	9	-			9
Chalcophape stephani         1           Tractor varians         1         25           Tractor varians         1         25           Pitinopus melanospila         8         5         11         25           Pucula forsteni         1         8         5         2         3           Ducula forstenina         1         5         2         3           Ducula adiata         1         13         15         2         14           Ducula bicolor         1         16         9         8         2         2           Ducula bicolor         1         16         9         6         2         2           Trichoglossus favoviridis         1         2         2         9         8         8           Trichoglossus favoviridis         1         4         14         4         10         9           Incidulus exilis         1         6         10         5         3         2           Prioriturus platurus         1         6         10         5         3         2           Prioriturus platurus         1         6         10         9         10         9	Green-winged Pigeon	Chalcophaps indica										-
Treron vernans	Stephan's Pigeon	Chaicophaps stephani			-				_			-
Pitingual melanospila   1	Pink-necked Green Pigeon	Treron vernans		-	· · · · · · · · · · · · · · · · · · ·	1				-		-
Ducula radiata         6         5         2           Ducula radiata         -         5         2           Ducula radiata         -         6         2           Ducula conclina         -         19         13         15         23         14           Ducula bicolor         -         16         9         5         2         7         14         14         14         14         14         14         14         14         14         14         14         14         14         10         9         9         8         8         12         12         14         14         14         14         14         14         14         14         14         14         14         14         14         14         16         16         12         12         12         12         12         12         12         13         13         12         13         13         12         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         13         14         14         14 <td>Riork paped Fruit Door</td> <td>I feron grieeicauda</td> <td></td> <td>×12</td> <td>-</td> <td>live and</td> <td>25</td> <td></td> <td>×15</td> <td>₩</td> <td></td> <td>52</td>	Riork paped Fruit Door	I feron grieeicauda		×12	-	live and	25		×15	₩		52
Ducula concinna         "         5         2           Ducula concinna         "         19         13         15         23         14           Ducula concinna         "         19         13         15         23         14           Ducula localor         "         16         9         5         2         2         2         2         3         5         2         2         14         14         4         10         9         8         8         14         14         4         10         9         8         8         10         10         10         10         9         10         10         9         10         10         9         10         10         9         10         9         10         9         10         10         9         10         9         10         9         10         9         10         9         10         9         10         9         10         9         10         9         10         9         10         9         10         9         10         9         10         9         10         9         10         9         10         9         10	Maria belied importal Distor	Timopus maianospira		9	n	:	- Control of the last	m	က			<u>~</u>
Ducula rational         **         19         13         15         23         14           Ducula rosacea         **         19         13         15         23         14           Ducula localor         *         16         9         5         2         2         2         2         17         14         14         4         10         9         8         8         1	Graving migalial Discon	Ducula rotston		-		ro.	7					80
Ductula rosacea         **         19         13         15         23         14           Ducula bicolor         *         16         9         5         2           Ducula bicolor         *         16         9         5         2           Trichoglossus flavoviridis         *         4         14         4         10         9           Loriculus sigmatus         *         6         10         5         3         2           Prioniturus piaturus         *         6         10         5         3         2           Prioniturus piaturus         *         6         10         5         3         2           Tanggnathus megalorymchos         *         9         10         9         10         9	His-bilad Imparist Disass			-	-							7
Ducuta bicolor         19         13         15         23         14           Ducuta bicolor         16         9         5         2         2         2         2         2         2         2         2         2         2         2         2         3         3         2         2         2         2         3         3         3         2         2         2         3         3         3         3         2         4         14         4         10         9         9         8         8         8         6         10         5         3         2         7         16         9         9         10         9         9         10         9         9         10         9         9         10         9         9         10         9         9         10         9         9         10         9         9         10         9         9         10         9         10         9         9         10         9         9         10         9         9         10         9         10         9         9         10         9         10         9         10         9	Pink-headed Imperial Direct	Ducula concinna										
Ducula luctuosa         *         16         9         5         2           Trichoglossus ornatus         *         2         2         9         9         8           Trichoglossus flavoviridis         *         4         14         4         10         9           Loriculus stigmatus         *         6         10         5         3         2           Prioniturus platurus         *         10         16         22         21         18           Prioniturus platurus         *         9         10         9         9         9	Plad imparial Pinaca	Ducuta Totaloga	The state of the s	6	13	15	23	7	1	7		>27
Trichoglossus drawing         *	White imperial Ploace	THE TAXABLE PROPERTY OF THE PR		Communication of the last	-		- Transmitter				-	12
Trichagloseare Ornatus   2 2 9 9 8   Exceptions   Trichagloseare Ornatus   2 9 9 8   Exception   2 9 9 8   Exception   2 9 9 8   Exception   2 9 9 9 8   Exception   2 9 9 9 9   Exception   2 9 9 9 9   Exception   2 9 9 9 9 9   Exception   2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Ornste Lorikeat			۰,		י מכ	a	7	Louding	_	7	×79
Loriculus stigmatus         4         14         4         10         9           Loriculus exilis         6         10         5         3         2           Loriculus exilis         7         6         10         5         3         2           Prioniturus piaturus         7         10         16         22         21         18           Tanygnathus megalorynchos         9         10         9         10         9	Yellow-and-Green Lorikeat	Trickoplesers formatish		1	7	5	<b>a</b>	80				4
Loriculus exilis	Sulawesi Handing-Parrot	Colonias et contrata	4		-	-	+			-		-
Prioriturus platurus Prioriturus platurus Tanygnathus megalorymchos  9 10 9	Green Handing Darrat	Louiseums augmanus		4	4	4	9	6	12	4		14
Fironitation   Firo	Color tales of the second	Loriculus exists		9	9	S	m	~	15			15
i attylinatius trogationynchos	Great-hilled Darrot	Tronucus platurus		9	9,	22	21	<b>3</b>	14	o		37
	Billow Dacked (Milliand Dorre)	Tomation inegatoryichos	telled Holdenster Land and and any	•	<b></b>	2	Tre - Division to Linear Lands	cs	7	and the special desiration of		2
	Subannes Hande Croteco		- -	7	1	9				-		ထ
				1	1						•	

DATE SURVEY TIME COMMON NAME Plaintive Cuckoo Indonesian Cuckoo Drongo Cuckoo		19/6	19/6	20/6   2	-	28/6 : 28/6	9/6/		•			- //0	24/7	7/57	31/7	14/8	16/9	16/8 18/9	9 24/10	
RVEY TIME  COMMON NAME aintive Cuckoo onesian Cuckoo ongo Cuckoo	reference y man institute in man institute i in man i i man e e e e e e e e e e e e e e e e e e e		-	÷.	9/07	+		200	02//	02//	03/7	+-	- <del>}</del>	-	1-10	-	+	ļ.,	<del></del>	2
RVEY TIME COMMON NAME condition Control linitive Cuckoo lonesian Cuckoo	And the second s			-			-4-			_4	4							-4-	-+-	
COMMON NAME Initive Cuckoo Innesian Cuckoo Innesian Cuckoo	ALL DATE AND THE PROPERTY OF T	60m	160m	220m 1	195m   33	330m 180m	120m	300m	330m	EOS	mOgs T	mcc2	Tager L	E	E	e E C	moss T	most mest	E E	E 2 2
Intive Cuckoo onesian Cuckoo ongo Cuckoo	SYSTEMATIC NAME				-			-				-			-					
onesian Cuckoo ongo Cuckoo	Cacomantis merulinus	7	-								-		-					-		-
ongo Cuckoo	Cacomantis sepulcralis	•	-			Handradan de Lancas de Canada	***************************************	+-		-	-	+	1		+	_		- International		- International Property lies
the billion of Manch	Surniculus lugubris				***************************************		American descriptions		***************************************		- Proposition of the last of t		+		-1-			-		•
	Eudynamys melanorhyncha	*		And the second second				-	-								-	"		
Fiery-billed Malkoha	Phaenicophaeus calvorhynchus		1		,						-	7			- T		7 .	7.0		
esser Coucai	Centropus bengalensis	-			1	-				•				-			+		2 .	0 4
Bay Coucal	Centropus celebensis	n .	-	7	4	7	7	-	3	7	*	n	1	_	+	?	╁	+	+	+
Sulawes Scops-Owl	Otus manadensis			***************************************		- Constitution of the Cons	-	A Property Control	-	-		1			-	drahalma	-	-	-	-
Satanic Nightjar	Eurostopodus diabolicus	•		LIFE CONTRACTOR OF THE PARTY OF	Handard - Annual Control	The state of the s	-				_					-		-	-	+
Great-eared Nightjar	Eurostopodus macrotis		-				-		-		-	-			-			-		
.ong-tailed Nightjar	Caprimulgus macrurus			Sinc	ngte bird re	recorded	in late Oct	opei	1996				1		7	+				
Savanna Nightjar	Caprimulgus affinis	-		-	-		teriamienteri entrient	-		-		1				-	+	+	1	7
Grey-rumped Tree-Swift	Hemiprocne longipennis			9	20	ç		-	-		4	7	ø	25.	7	7	3	γ . Δ	7	7
White-bellied Swiftlet	Collocalia esculenta		×20	×20		-	φ. •	-	2.0	-	4			-		- The second	The second second	7	4. U	2
Uniform Swiftlet	Aerodramus vanikorensis			×105	×20		2	-			2		-			^	191	-		+
White-throated Needletail	Hirundapus caudacutus					a serbernaber ; samensens	Marriage	-												
Purple Needletail	Hirundapus celebensis				-											-	-		-	-
Fork-tailed (Pacific) Swift	Apus pacificus				-									· ·	-	-		***************************************	* Innerent	-
Asian Palm-Swift	Cypsiurus balasiensis						-	***************************************	-		- I	- Harry of the Sales of the		-		-	-			***************************************
Collared Kingfisher	Halcyon chloris	=	4	S	ব	3	***	2	-	-		6	m	_	~	_	o		e e	S
Sacred Kingfisher	Haicyon sancta								***************************************				***************************************		-	-	*	-		_
Blue-eared Kingfisher	Alcedo meninting		***************************************	of a contract and abbunded for		-	- Hermanne durante					-	-	-	the district better	- Indiana di Antonio	***************************************	-	-	+
Common Kingfisher	Alcedo atthis	-			+	+	-	_	-	_				-	1	-	2	+		+
Rainbow Bee-eater	Merops ornatus	2		-		man at designary absorberated	-	-	210	-			1	12	٥				\$25 \$	1
Purple-winged Roller	Coracias temminckii				n			-				-	_	-	-	7		7		-
Broad-billed Roller (Dollarbird)	Eurystomus orientalis									-		Ī		(	_					-
Sulawesi Hornbill	Penelopides exarthatus	7	-		+	- -	-	-	-		•	•	7	7	+	+ (	+	-	7 (	0 (
Red-knobbed Hornbill	Rhyticeros cassidix	0	12	4	-	2	0	_	n	and the second second	20	2	»	2	-	2	0	7		1
Sulawesi Pygmy Woodpecker	Picoides temminckii		1	ļ	+	,	1	-		·			*	•	$\dagger$	+		+	. .	+
Ashy Woodpecker	Mulleripicus fulvus	2	-		<b>-</b>	- Indiana de la constitución de		a manufacture of the same	-	o			-	-		-	<b>,</b>	-		0
Ked-bellied Fitta	Fina erymogasier	and the second		-											-		-	-		4
Darr Swallow					¥	^	Υ.	۳	-	-		-	-	***************************************	15		5	7		-
Died Cuckoo, Shrike	Corsoins bicolor	66	-	4	, -	-	_	-		-				T	<u> </u>	<del> -</del>	-	-	-	2
White-rumped Cuckoo-Shrike	Coracina leucopyola	4	-	- 5	(1)	2			deserve interest of the reference	***	_			90	-		10	9		4
Common Cicadabled	Coracina tentifostris		-	-	2			-	-		7			1			S	_	_	
Sulawesi Cicadabird	Coracina morio	***************************************	-			-	~				-		***	-			7	4	-	
Sulawesi Pied Triller	Latage Inigral leucopygialis	*		2	7	- "	2		2				-		*		-			
White-winged Triller	Lalage sueril									-							-			
Hair-crested Drongo	Dicrurus hottentottus		2	2	2	-		လ	6	2	9	4	-	-	-	-	۔ ا			2
Black-naped Ortole	Oriolus chinenals	~		6	S			7				7	7				ده	4	n	-
Stender-billed Crow	Corvus enca	2				+	1	9				- January - Anna - Anna - Anna - Anna - Anna - Anna - Anna - Anna - Anna - Anna - Anna - Anna - Anna - Anna -	۷,		S		9		1	
Piping Crow	Corvus typicus	-	- <del> </del>		S.	2	-	+	7	_			-	-		1		7		+
Sulawesi Babbler	Trichastoma colebense	8	<b>X</b>	6	<sub>6</sub>	-	and the second		and addressed of American Spirits (A)	-	84					demanderstrates	2	4	7	3
Pied Bushchat	Saxicola caprata	-	-		+	+		7		-						1	7)	+	1	-
Red-backed Thrush	Zoothera erythronota	*			and the second s						<b>.</b>		- Links of the links of the land							-
Golden-bellied Gerygone	Gerygone sulphurea				2					-				**************************************		The state of the s		-		
Clamorous Reed-Warbler	Acrocephalus stentoreus		of each of the latest and the latest													-			-	+
Zitting Cisticola	Cisticola juncidis				-	-	-	-							-	-	-	1	-	+
iolden-headed Cisticola	Cisticola exilis										!			_				-	- 2	-

ha ha ha ha ha ha ha ha ha ha ha ha ha h	ME mochus	25/10 05m	28/10 300m	28/10 120m	30/10 170m	180m 180m	07/11 250m	19/11 120m	20/11 120m	20/11	Max
	WME cha	05m		120m		180m	250m	120m	120m	ي م	<u>ت</u>
	cha Ymohus			•		-				5	2
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	cha		-	-	2	2	~	,		-	-
	rifculus lugubris  Yhamys melanorhyncha  senicophaeus całyorhynchus  ritopus bengalensis  ritopus celebensis  ritopus celebensis  ritopus celebensis  rostopodus diabolicus  ostopodus macrotis  oritoulgus macrotis  primulgus affinis  miprocne longipennis  localia esculenta						+-	•		Ī	, ~
	ignamys melanorhyncha acalicophaeus calvorhynchus artropus bengalensis artropus celebensis artropus celebensis artropus celebensis artropus celebensis artropus diabolicus ostopodus macrotis perimulgus macrurus primulgus affinis miproces longipennis ocalicus artropus		-	~	-		-	T	1		
	tropus bengalensis  Tropus bengalensis  Tropus celebensis  Tropus affinis  Tropus affinis  Tropus affinis  Tropus celebensis  Tropus celebensis		ო	7	7	~	~	7	Therefore the second section	-	ım
	titopus bengalensis  titopus celebensis  manadensis  ostopodus disolicus  ostopodus macrotis  rimulgus macruus  primulgus affinis  miprocne longipennis					m	ហ	7			មា
	riropus celebensis ** s manadensis ** ostopodus diabolicus ** ostopodus maccitis ** orimulgus maccitus ** orimulgus affinis ** miprocne longipennis ** localia esculenta		2	-	ω	7	7	7	7		ស
	is maradensis ostopodus diabolicus nostopodus macrotis orimulgus macrurus orimulgus affinis miprocne longipennis		~	9	4	2	6	4		-	G
	ostopodus diabolicus ostopodus macrotis primulgus macrurus primulgus affinis miprocine longipennis localia esculenta						_		-	-	6
	ostopodus macrotis primulgus macrurus primulgus affinis mprocne longipennis localia esculenta					-				-	-
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	niprocne longipennis localia esculenta		-						-	Ī	-
	localia esculenta		12	50	14	10	12	80	-	-	, E
			5		4			ις. Λ	T	T	Ş
	Aerodramus vanikorensis		>67		- Items	15	-	-	>133	7	>133
	Hirundapus caudacutus	-						+			2 -
	Hirundapus celebensis	-				- Annual Control of the Control of t	-	-	- Marrie Warnes		
	Agus pacificus	-	-		<u> </u>		T		-	1	-
	Cypsturus balasiensis		-	-	-		1	-	-	-	- *
	Halcyon chloris		4		(C)	9		•	4	+	
	Halcyon sancta			Control of the last		-	4		,	-	1 -
	Alcedo meninting					-	-				-
	Alcedo atthis		-		-	-	-	-	-		- 6
	Merops ornatus		~			T		-	-		2C×
	Coracias temminckii		r)	7	2	2	2	-		-	1
	Eurystomus orientalis							-			-
	Penelopides exarthatus			7	S.	ιΩ		۳ س			G
Submed District Monday	Mnyticeros cassidix		-	17	•0	12	15	15	-		17
	Picoldes temminckii		1								2
THE PERSON NAMED IN COLUMN TWO PARTY AND PARTY	Diff. on the contract			-	S)	7	က	_	+		ς,
Andrew Angewerend to the second secon	Hrundo rustica		-		7	N					2
Pacific Swallow Hire	Hirundo tahitica	>30	•			and control and purpose,	+	-	14.7		4
	Coracina bicolor				T	3	er,	+	3	1	3,4
00-Shrike	Coracina leucopygia		e	7	0	9	6	2	2		9
-hund-hermannappeluapet-tradmanhibaseur	Coracina tenuirostris			-							5
Surawesi Cicadabird	Coracina morio		_	c 2	m	7	7				S
	alago [nigra] leucopygialis *	To be seen to be seen	-	2	7		7				2
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***************************************	Octobre obligated		9	2	7		S	m			#
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And the second later of the second varieties of the second second of the second	Corvie twices		0 0	*	4	1				-	9
bbler	Trichastoma celahensa		7		n (	- <	າ ເ	-	-		S
	Saxicola caprata	-	-	3	4	y (	0		7 (		=
	Zoothera ervinronota		4		T	7	†	7	7		
	Gerygone sulphurea		2	The second second	-		-		+	Ŧ	- 6
d-Warbler	Acrocephalus stentoreus		-	- Distance of the last of the	-			1	-	-	7
	Cisticola juncidis		- Company	To the second second	+-	-	- Tomoriomore	+			+
Golden-headed Cisticola Cist	Cisticola exilis		2	-	T	-		+	+		-

はとくつう	90															-	-	-		-	
DATE		19/6	19/6	20/6	20/6 24	28/6 28/6	16 29/6	5 01/7	7 02/7	02/7	03/7	04/7	24/7	25/7	34/7	14/8	16/9	16/9	18/9 2/	24/10 2,	24/10
								<del>ļ</del> -	<del> </del>	<del>i</del>					-		)	+-	-7'-	2	2
SURVEY TIME		£0m	160m	220m 1	195m   33	330m 180m	)m 120m	300m	n 330m	E	390m	255m	150m	150m	m06	150m	330m	135m S	90m 12	120m 1:	135m
COMMON NAME	SYSTEMATIC NAME					***************************************	-	-						1					-		-
Asian Brown Flycatcher	Muscicapa latirostris						***************************************								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Black-naped Monarch	Hypothymis azurea puella	7		4	υ	-	4	-				L		Ī	-	-	5	-	+	*	T
Citrine Flycatcher	Culicicapa helianthea	-		-			-			-	-	6		-	1		-	-		<u> </u>	-
Yellow Wagtail	Motacilia flava						-		-		-	THE PERSON NAMED IN COLUMN 1	-E-Verlatterleville Vances				-	-		-	-
Grey Wagtall	Motacilla cinerea				_	_			-	-	-	-				-	-		-		draman for the
White-breasted Woodswallow	Artamus leucorhynchus	3	12	n		2 12	_	52	9	3		8	0	ı,	2		7	-	-		5
Ivory-backed Woodswallow	Artamus monachus	•	2		6		S		13				•	ភ		4	. 6	- tonata	, 0	-	40
Short-tailed Glossy Starling	Aplonis minor						_	-	_	_					6			+	-	+	,
Asian Glossy Starting	Apionis panayensis	7		-		۴3	ဓ	s.						10	2		<u>~</u>	16	>6	-	,
Sulawesi Crested Myna	Basilornis celebensis	7		က			***				4					5	m	47	-	-	0
White-necked Myma	Streptocitta albicollis	*		26	ហ	7	-	e	-		_		-	4	-		9	7	+	-	4 4
Finch-billed Myna	Scissirostrum dubium	έū	×18	333	_	×3 4	×12			_	>42			67	Ī	230	>41	-	. ~	<u>'</u>	, ;
Brown-throated Sunbird	Anthreptes malacensis	က			-	<u> </u>		2	hand del production and the same		***************************************					3	9	+	>	Total Principles	4
Black Sunbird	Nectarinia aspasla						-	-	6		9	2	I	-	-	-	, ~	<del> </del>	+	-	
Olive-backed Sunbird	Nectarinia jugularia	4			4	1 2	2	_					4		14	-	- -	u	4		+
Crimson Sunbird	Aethopyga siparaja	₩.			~		<u>L.</u> .	***************************************		-	n			-	-	-		- - -			
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	6	-	ო		>10	٣			7	21	603		C	-	2	-	4	+	5	-
Grey-sided Flowerpecker	Dicaeum cetebicum	7		***************************************	2	2	7				2				2	-	13	7	-	-	m
Lemon-bellied White-Eye	Zosterops chloris	*	-	7			n	∞	7				o	o	5		15	un	2	- 6	(1)
Eurasian Tree Sparrow	Passer montanus				-		2 birds	resident	nt Maligano	300											Ţ
Pale-bellied White-Eye	Zosterops consobrinorum	w •	-	7	414		ഹ	ន		-	<del></del>		_	-			2	6		-	67
Black-faced Munia	Lonchura molucca	23	-		11	- Water							2	22	-		7	-	-	1	
Scaly-breasted Munia	Lonchura punctulata					2		_												-	- retirement
Chestnut Muna	Lonchura malacca	-			1	25	2	× 15									6			3	>67
Snipe Pintail/Swinhoe's	Gallingo sternura/medala		The state of the s	***************************************	-			-													
Glossy Starting species	Aplonis minor/panayensis				9.4	-	-									-	-	+		-	
Buttonquall species	Turnix species				-			-		-						+	-	+-	+	+	T
A CAMP OF MAINTENANCE AND AND AND AND AND AND AND AND AND AND												-		+	-	-		-	1-41	$ar{1}$	T
TOTAL SPECIES: 126				-			<u></u>			_	-				+-		-	+	-	+	T
SULAWESI ENDEMICS: 38	The second state of the second state of the second state of the second state of the second state of the second											- Arteristry restriction				-	Al In contract to the last			-	
INDONESIAN ENDEMICS: 7	Control Control of State of Control Co								-		-				-		-	And the second	-	_	
									The section of the se		-		-	-		Ī	***************************************				
(TEAMS: 9																<del> </del>	-	-	-	╁	I

DATE	***************************************		-			***************************************	+			-	
W/71 + L		25/1	25/10 28/10 28/10 30/10 06/11 07/11	28/10	30/10	06/11		19/11	20/11 20/11	20/11	Max
			****							-	Count
SURVEY TIME	THE CONTRACT THE PROPERTY IN THE CONTRACT OF THE PROPERTY OF T	05m		300m   120m	170m	180m		250m 120m 120m	120m	20m	
COMMON NAME	SYSTEMATIC NAME	<u> </u>									
Asian Brown Flycatcher	Muscicapa latirostris			m	G		1	-			o
Black-naped Monarch	Hypothymis azurea puella		2	-	2		9				đ
Oltrine Flycatcher	Culicicapa helianthea				+		4	2			4
Yellow Wagtall	Motacilia flava		-	-							-
Grey Waqtall	Motacilia cinerea		-			and the same of th					-
White-breasted Woodswallow	Artamus feucorhynchus		_	8	2	12	o	24	2.4	6	25
Nory-backed Woodswallow	Artamus monachus	-		2	6	2	9			-	2
Short-tailed Glossy Starling	Aplonis minor										m
Asian Glossy Starling	Aplonis panayensis		m		6	G	11	က	1		>30
Sulawesi Crested Myna	Basilornis celebensis	#	<b>*</b> -	ဖ	~	m		m	7		_
White-necked Myna	Streptocitta albicollis	•	2		4	2	•				56
Finch-billed Myna	Sclastrostrum dubium		တ	_	7	5	52	4			8
Brown-throated Sunbird	Anthreptes malacensis		2		-				2		9
Black Sunbird	Nectarinia aspasia		ĸ	11	Ψ.			2	-		=
Olive-backed Sunbird	Nectarinia jugularis		<b></b>		7				۲ د	ø	14
Crimson Sunbird	Aethopyga siparaja		-	-			7				က
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	#	#	11	æ		~				21
Grey-sided Flowerpecker	Dicaeum celebicum	*	2	3	မွ	က	83	7	-		13
Lemon-bellied White-Eye	Zosterops chloris	#	<b>6</b> 0	2	4	7		7	×3.1	12	>31
Eurasian Tree Sparrow	Passer montanus										2
Pate-bellied White-Eye	Zosterops consobrinorum	*		9	ß	60	7	2			×14
Black-faced Munia	Lonchura molucca	+	-								23
Scaly-breasted Munia	Lonchura punctulata									-	6
Chestnut Munia	Lonchura malacca		'n			4	16	35,	2		>67
	ACCOUNT OF THE PARTY OF THE PAR			111111111111111111111111111111111111111							
Shipe Piniali/Swinnoe s	Callinago sternura/megala	_	ove <b>s</b> .						-	••••	-
Glossy Starling species	Aplonis minor/panayensis										>10
Buttonquail species	Turnk species			τ							-
TOTAL SPECIES: 126											
SULAWESI ENDEMICS: 38											
INDONESIAN ENDEMICS: 7			-						***************************************		
TOTAL TIME: 91h45m									read or deal was market		
TEAMS: 9		_	_								

DATE			11	01/8	12/8	14/	8 14/8	14/8	14/8	14/8	15/8	19/8	23/1	0/20/11	Max
SURVEY TIME			1 4	20	180-	175	n:120m	20-	120-				Ī	1	Cour
			++	2011	1001	1/3	ni izum	Zum	12011	y Sum	750n	1240	n 105n	n 120m	1
COMMON NAME	SYSTEMATIC NAME					j				<u> </u>	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	+	11
Barred Honey-Buzzard Brahminy Kite	Pernis celebensis		44		<u> </u>	·					1			1	. 1
Lesser Fish-Eagle	Haliastur indus Ichthyophaga humilis		<del>   </del>		ļ	<u> </u>			1	ļ	ļ		ļ		1
Sulawesi Serpent-Eagle	Spilornis rufipectus		•	1		1	+		<u> </u>	ļ	<del> </del> _		<del></del>	<u> </u>	1
Sulawesi Goshawk	Accipiter griseiceps					<del> </del>				ļ	<u> </u>	1	<del></del>	<del></del>	1_1_
Spot-tailed Goshawk	Accipiter trinotatus		i de			<del></del>	1			<u> </u>		1 1	1	<del></del>	<u> </u>
Spotted Kestrei	Falco moluccensis	****	**	1		<del>-</del>	11	~	·		L	<u> </u>	<u>;</u>		1
Peregrine Falcon	Falco peregrinus						1	**********			<del></del>	<del></del> -	<del></del>	†	1
Red Junglefowl Slender-billed Cuckoo-Dove	Gailus gailus										ì		<u> </u>	1	Ť
White-faced Cuckoo-Dove	Macropygia amboinensis			5	1	1_1_	<u> </u>		3			7	9	3	9
Grey-cheeked Green Pigeon	Turacoena manadensis Treron griseicauda		*	2		<u> </u>						2	3	1	3
Slack-naped Fruit-Dove	Ptiinopus melanospila		!	4	10	4	11		5				5		5
White-bellied Imperial Pigeon	Ducula forsteni	—! 		2	2	1	+		-3	1	2	6 20	7 5	5	14
Grey-headed Imperial Pigeon	Ducula radiata	i	-	-			1 1					20	3	>30	>30
ink-headed Imperial Pigeon	Ducula rosacea	ľ	** (	6	2				1	2		11	9	30	30
Vhite Imperial Pigeon	Ducula iuctuosa		*							~ <del>~</del>				3	3
Ornate Lorikeet	Trichoglossus omatus			5		2			i	i	>20	16	2		>20
ulawesi Hanging-Parrot	Loriculus stigmatus			2	1					2	2	4		1	4
reen Hanging-Parrot olden-mantled Racket-tailed Parrot	Loriculus exilis Prioniturus platurus			7		_1	ļļ.	[	4		2	5	1		7
ireat-billed Parrot	Tanygnathus megalorynchos			2	7	11	<u> </u>			>146		20	78	25	>146
lue-backed (Muller's) Parrot	Tanygnathus sumatranus	}				_1_	<b>  </b> -		<u> </u>	<u> </u>			2		9
ulawesi Hawk-Cuckoo	Cuculus crassirostris		-	$\dashv$										12	12
laintive Cuckoo	Cacomantis merulinus							·	-			1		_1	1
rongo Cuckoo	Surniculus lugubris	_†				1	1		<del></del>		1	2	<u>+                                  </u>		2
lack-billed Koel	Eudynamys melanorhyncha	-				2						1	2		2
iery-billed Malkoha	Phaenicophaeus calyorhynchus	•			2		2					2			2
esser Coucal ay Coucal	Centropus bengalensis		<u> </u>			1						1	1		1
ulawesi Owi	Centropus celebensis	-			2	8					3	5		4	8
ulawesi Scops-Owl	Tyto rosenbergii Otus manadensis	*				_							1		1
atanic Nightjar	Eurostopodus diabolicus	*				1		<del> </del> -		— <u> </u> -			3		
reat-eared Nightjar	Eurostopodus macrotis	<del></del>	<del> </del>				<del></del>			<del></del>			4	#	4
avaπna Nightjar	Caprimulgus affinis	-	<del>                                     </del>		<del></del>	3				<del></del>  -					-1
rey-rumped Tree-Swift	Hemiprocne longipennis	Ì	6	<del></del>	15	10	15		1	24	5	10		-++	24
/hite-bellied Swiftlet	Collocalia esculenta	1	5					<del></del>		12					12
niform Swiftlet sian Palm-Swift	Aerodramus vanikorensis		>1			10	10		3		14	11	>38	8	>38
reat-billed Kingfisher	Cypsiurus balasiensis		1		_							2		1	2
ollared Kingfisher	Halcyon melanorhyncha Halcyon chloris		<del> </del>		1										1
ue-eared Kingfisher	Alcedo meninting		-		1	1		-							1
sinbow Bee-eater	Merops ornatus	- -	┼	······	>4	4			<u>-</u>						1
rple-winged Roller	Coracias temminokii	*	┼			-				— <u> </u> -	2			2	>4
ılawesi Hornbill	Penelopides exarthatus	4	ļ	1.	4	1					3	2	6	<del>-   </del>	2 6
d-knobbed Hornbill	Rhyticeros cassidix	*	8	7	4	9	8		6			6	8	5	9
hy Woodpecker	Mulleripicus fulvus	•	3		3	1						1		5	5
ed-bellied Pitta	Pitta erythrogaster	Ţ												2	2
ed Cuckoo-Shrike hite-rumped Cuckoo-Shrike	Coracina bicolor	*	<u> </u>			2						2		4	4
mmon Cicadabird	Coracina leucopygia		5		3			_		<del></del>	2				5
lawesi Cicadabird	Coracina tenuirostris Coracina morio		2		<del></del>	4					1		2	$-\Pi$	4
lawesi Pied Triller	Lalage [nigra] leucopygialis			+3		1				!		2		2	3
ir-crested Drongo	Dicrurus hottentottus	+	8	- 5		2		1			<u>,                                    </u>	_	_	_#	2
ick-naped Oriole	Oriolus chinensis	1	7	3		1						4 5		3 9	8 9
ing Crow	Corvus typicus	7	2	╅						-+-		1		<b>-</b>	2
awesi Babbler	Trichastoma celebense	*	2	I		2		1	-			-	3	2	6
ck-naped Monarch	Hypothymis azurea puella	П	4	I		1						· · · · · · · · · · · · · · · · · · ·		5	5
rine Flycatcher	Culicicapa helianthea		3	2		1		1				-		4	4
rite-breasted Woodswallow ry-backed Woodswallow	Artamus leucorhynchus			3		0	_	1	Ţ						10
y-backed vwoodswariow awesi Crested Myna	Artamus monachus Basilornis celebensis	*		-			2	1						3	3
ite-necked Myna	Streptocitta albicollis			+-			2	4		-   -	1			3	13
ch-billed Myna	Scissirostrum dubium		34	15				<del></del> -		3			2	ļĹ	3
wn-throated Sunbird	Anthreptes malacensis	+	2	1-15		, -				_   1		58			>68
ck Sunbird	Nectarinia aspasia	11	5	<del>  '</del>	- 2		2	2	1	+10	2 2		1		4
re-backed Sunbird	Nectarinia jugularis		2	2			-	1 2	+-	+-!	2				10
nson Sunbird	Aethopyga siparaja		1	1				╅	1		4		-   1	****	4
ow-sided Flowerpecker	Dicaeum aureolimbatum	*	1	2			1	1		9					10
y-sided Flowerpecker	*	*	4	<u> </u>	1					3		1			4
non-bellied White-Eye bellied White-Eye		**	2	ļ	1	-		2	1		5				5
- newen saumerie	Zosterops consobrinorum	*	1	<del>[</del> -					>5	5 📗					>5
ıtjar species	Caprimulgus species			<del> </del>											<u> </u>
and a property of the state of		-		<del> </del>	<del></del> -		4		+-				<del>-                                    </del>		4
AL SPECIES: 72		+		-		-			<del> </del>	+-	<del>-  </del>	1			
						,						i	2	4 7	3
AWESI ENDEMICS: 35					1				1	1		1	<del>- j</del> -		
AWESI ENDEMICS: 35 ONESIAN ENDEMICS: 4 'AL TIME: 24h10m													1		$\exists$

DATE			14/8	15/8	07/11	24/11	Max
SURVEY TIME							Coun
SURVETTIME			190m	210m	150m	120m	_
COMMON NAME	SYSTEMATIC NAME			1	<del> </del>	1	
Brahminy Kite	Haliastur indus		3		1	2	3_
Sulawesi Serpent-Eagle	Spilornis rufipectus	*	2		1	5	5
Sulawesi Hawk-Eagle Barred Rail	Spizaetus lanceolatus Gallirallus torquatus	<b>-</b>	1 2			<del>  _  </del>	1_1_
White-breasted Waterhen	Amauromis pheonicurus	<u>-</u>	<del> </del>			2	2
Great Crested Tern	Sterna bergii		2				2
Spotted Dove	Streptopelia chinensis		2			2	2
Siender-billed Cuckoo-Dove White-faced Cuckoo-Dove	Macropygia amboinensis		3		3	5	5
Green-winged Pigeon	Turacoena manadensis Chalcophaps indica		1			3	3
Stephan's Pigeon	Chalcophaps stephani			1		<del>  </del>	
Grey-cheeked Green Pigeon	Treron griseicauda	**			4	2	4
Black-naped Fruit-Dove	Ptlinopus melanospila		5	2	3	9	9
Pink-headed Imperial Pigeon White Imperial Pigeon	Ducula rosacea	**	14	_1_	26		26
Ornate Lorikeet	Oucula luctuosa Trichoglossus ornatus		2	4	24	11 2	24
Sulawesi Hanging-Parrot	Loriculus stigmatus	-	7		2	10	10
Green Hanging-Parrot	Loriculus exilis	*	1	1	2	4	4
Golden-mantled Racket-tailed Parrot	Prioniturus platurus	*			7		1 7
Plaintive Cuckoo Gould's Bronze-Cuckoo	Cacomantis merulinus		<u> </u>	Į		1	1_1_
Gould's Bronze-Cuckoo Black-billed Koel	Chrysococcyx russatus Eudynamys melanorhyncha	*	1		2	1	1 2
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	*		4		_'_	4
Lesser Coucal	Centropus bengalensis			1	1	5	5
Bay Coucal	Centropus celeb <b>ensis</b>	*		4	2	2	4
Grey-rumped Tree-Swift	Hemiprocne longipennis		4	3		7	7
Uniform Swiftlet Ruddy Kingfisher	Aerodramus vanikorensis Halcyon coromanda			1	15	<u> </u>	15
Great-billed Kingfisher	Halcyon melanorhyncha					1	1 1
Collared Kingfisher	Halcyon chloris		7	1		4	+ ;
Common Kingfisher	Alcedo atthis			1	1		1
Rainbow Bee-eater	Merops ornatus			>8			>8
Purple-winged Roller Sulawesi Hornbill	Coracias temminckii	*		3			3
Red-knobbed Hornbill	Penelopides exarthatus Rhyticeros cassidix		2	6	3	2	<u>1</u> 6
Ashy Woodpecker	Mulleripicus fulvus		1	1	3		3
Red-bellied Pitta	Pitta erythrogaster					1	1
Pacific Swallow	Hirundo tahitica		>7				>7
White-rumped Cuckoo-Shrike Common Cicadabird	Coracina leucopygia Coracina tenuirostris		10		9	9	10
Sulawesi Cicadabird	Coracina morio		1	1		2 6	6
White-winged Triller	Lalage sueurii		<del></del> †	1			1
lair-crested Drongo	Dicrurus hottentottus		2	2		2	2
Slack-naped Oriole	Oriclus chinensis		11		2	6	11
Slender-billed Crow Piping Crow	Corvus enca		4	4	2	1	4
Sulawesi Babbler	Corvus typicus Trichastoma celebense		18	4	2		18
Golden-bellied Gerygone	Gerygone sulphurea		1	<del>-7-</del> -	-	1 :	1 1
Soiden-headed Cisticola	Cisticola exilis		2		-	9	9
Black-naped Monarch	Hypothymis azurea puella		5		1	1	5
Vhite-breasted Woodswallow /orv-backed Woodswallow	Artamus leucorhynchus		19	6	12	9	19
hort-tailed Glossy Starling	Artamus monachus Apionis minor					5	5
sian Glossy Starling	Apionis panayensis				4	6	6
ulawesi Crested Myna	Basilornis celebensis	1			2		2
Vhite-necked Myna	Streptocitta albicollis	*		1	5		5
inch-billed Myna rown-throated Sunbird	Scissirostrum dubium		2 4	4	15		15 9
lack Sunbird	Anthreptes malacensis Nectarinia aspasia		5		3	9 5	5
Olive-backed Sunbird	Nectarinia jugularis		5		5	<del>-  </del>	5
rimson Sunbird	Aethopyga siparaja		1		1	5	5
ellow-sided Flowerpecker	Dicaeum aureolimbatum	[*	5	5	9	3	9
rey-sided Flowerpecker emon-bellied White-Eye	Dicaeum celebicum Zosterops chloris		7	2	12	7	7
ale-bellied White-Eye	Zosterops consobringrum		2	<del></del> }-	8	4	12 8
lack-faced Munia	Lonchura molucca		6				6
caly-breasted Munia	Lonchura punctulata		2	i			2
hestnut Munia	Lonchura malacca				12	15	15
rigatebird species	Fregata species				25		25
mali Sparrowhawk species	Accipiter nanus/rhodogaster			1			
OTAL SPECIES: 70							
ULAWESI ENDEMICS: 27					<u> </u>		
OTAL TIME: 11h20m							
THE CHIEF CONTRACTOR			<u> </u>				

SQUARE	24		1	1 1	1
DATE			20/11	21/11	Max
					Count
SURVEY TIME	TOTAL TOTAL THE CONTROL OF THE CONTR		60m	C5m	
COMMON NAME	SYSTEMATIC NAME		<del> </del>		<u> </u>
Woolly-necked Stork	Ciconia episcopus	<del></del>	4		1 4
Sulawesi Serpent-Eagle	Spilomis rufipectus	*	2		2
Rufous-bellied Eagle	Hieraaetus kienerii		<del>  -</del>	1	1 1
Slender-billed Cuckoo-Dove	Macropygia amboinensis		2		2
Grey-cheeked Green Pigeon	Treron griseicauda	**	1	<u>-</u>	1 1
Black-naped Fruit-Dove	Ptlinopus melanospila	<del> </del>	5		5
White Imperial Pigeon	Ducula luctuosa	•	4		4
Sulawesi Hanging-Parrot	Loriculus stigmatus		1		1
Golden-mantled Racket-tailed Parrot	Prioniturus platurus		2	+	2
Lesser Coucal	Centropus bengalensis	<u>†</u>	2		2
Bay Coucal	Centropus celebensis	<u> </u> *	2		2
Grey-rumped Tree-Swift	Hemiprocne longipennis	<u> </u>	9		9
Moluccan Swiftlet	Aerodramus infuscatus		6		6
Collared Kingfisher	Halcyon chloris	<del></del>	9		9
Purple-winged Roller	Coracias lemminckii	*	1	1	1
Red-knobbed Hombill	Rhyticeros cassidix	*	1		1
Common Cicadabird	Coracina tenuirostris		1	1	1
Black-naped Oriole	Oriolus chinensis		1		1
Black-naped Monarch	Hypothymis azurea puella		2	i-	2
White-breasted Woodswallow	Artamus leucorhynchus		5	<u>-</u>	5
Asian Glossy Starling	Aplonis panayensis		6		6
White-necked Myna	Streptocitta albicollis	*	4		4
Black Sunbird	Nectarinia aspasia		3		3
Lemon-bellied White-Eye	Zosterops chloris	**	1	ļ	1
Black-faced Munia	Lonchura molucca	**	5	at a second	5
FOTAL ODGOLGO					
TOTAL SPECIES: 25					
SULAWESI ENDEMICS: 8					
NDONESIAN ENDEMICS: 3					
FOTAL TIME: 1h05m					
TEAMS: 2	į			ŀ	

SQUARE	28	1	<u> </u>	1
DATE			17/9	Max
			+	Count
SURVEY TIME		<del></del>	60m	Count
			100111	
COMMON NAME	SYSTEMATIC NAME	1	1	
Lesser Frigatebird	Fregata ariel	1	2	2
Great-billed Heron	Ardea sumatrana	**	1	1 1
Woolly-necked Stork	Ciconia episcopus		1	1 1
Brahminy Kite	Haliastur indus	1	1	1
Grey Plover	Pluvialis squatarola	1	1	1
Grey-tailed Tattler	Heteroscelus brevipes		1	1
Common Sandpiper	Actitis hypoleucos		1	1 1
Whimbrel	Numenius phaeopus	1	1	1
White-winged Tern	Chlidonias leucopterus	1	1	1
Bridled Tern	Sterna anaethetus		1	1
Great Crested Tern	Sterna bergii		5	5
Fairy Tem	Gygis alba	t	>3	>3
Grey-cheeked Green Pigeon	Treron griseicauda	**	3	3
White Imperial Pigeon	Ducula luctuosa	*	2	2
Sulawesi Hanging-Parrot	Loriculus stigmatus	*	3	3
Collared Kingfisher	Halcyon chloris	i	4	4
Pacific Swallow	Hirundo tahitica		>5	>5
White-rumped Cuckoo-Shrike	Coracina leucopygia	*	4	4
White-breasted Woodswallow	Artamus leucorhynchus		2	2
Asian Glossy Starling	Aplonis panayensis		5	5
Brown-throated Sunbird	Anthreptes malacensis		1	1
Black Sunbird	Nectarinia aspasia		1	1
Grey-sided Flowerpecker	Dicaeum celebicum	*	1	1
_emon-bellied White-Eye	Zosterops chloris	**	7	7
TOTAL SPECIES: 24				
SULAWESI ENDEMICS: 4				
NDONESIAN ENDEMICS: 3				
FOTAL TIME: 1h				
TEAMS: 1			1	

SQUARE	33	<u> </u>	<del></del> -	
DATE			17/9	Max
SURVEY TIME		<u>-</u>	400-	Count
SOKAE! HAIE			180m	
COMMON NAME	SYSTEMATIC NAME	_	1	<del></del>
Osprey	Pandion haliaetus		1	1
Barred Honey-Buzzard	Pernis celebensis	*	1	1
Brahminy Kite	Haliastur indus		2	2
Sulawesi Serpent-Eagle	Spilornis rufipectus	٠	2	2
Slender-billed Cuckoo-Dove	Macropygia amboinensis		13	13
Black-naped Fruit-Dove	Ptlinopus melanospila		12	12
Ornate Lorikeet	Trichoglossus ornatus	· · · · · · · · · · · · · · · · · · ·	4	4
Sulawesi Hanging-Parrot	Loriculus stigmatus	*	7	7
Oriental Cuckoo	Cuculus saturatus	_	1	1_1_
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	*	3	3
Lesser Coucal	Centropus bengalensis		2	2
Bay Coucal	Centropus celebensis		2	2
Grey-rumped Tree-Swift	Hemiprocne longipennis		>5	>5
White-bellied Swiftlet	Collocalia esculenta		8	8
Moluccan Swiftlet	Aerodramus infuscatus	··· <del>-</del>	>30	>30
Uniform Swiftlet	Aerodramus vanikorensis	Ļ	>28	>28
Ruddy Kingfisher	Halcyon coromanda		2	2
Collared Kingfisher	Halcyon chloris		5	5
Common Kingfisher	Alcedo atthis		1	1
Rainbow Bee-eater	Merops ornatus		>40	>40
Red-knobbed Hornbill	Rhyticeros cassidix	<u>_[</u>	1 1	1 1
Ashy Woodpecker	Mulleripicus fulvus		1	1 -
White-rumped Cuckoo-Shrike Hair-crested Drongo	Coracina leucopygia Dicrurus hottentottus		6 2	6
Black-naped Oriole	Oriolus chinensis		9	9
Slender-billed Crow	Corvus enca	<u></u>	2	2
Piping Crow	Corvus erica Corvus typicus	i i*	2	2
Sulawesi Babbler	Trichastoma celebense		2	2
Solden-bellied Gerygone	Gerygone sulphurea		1	1
Black-naped Monarch	Hypothymis azurea puella		2	2
Mangrove Whistler	Pachycephala grisola		1	1
White-breasted Woodswallow	Artamus leucorhynchus		6	6
vory-backed Woodswallow	Artamus monachus		2	2
Asian Glossy Starling	Aplonis panayensis		15	15
Sulawesi Crested Myna	Basilornis celebensis	*	4	4
White-necked Myna	Streptocitta albicollis	*	3	3
Brown-throated Sunbird	Anthreptes malacensis		7	7
Black Sunbird	Nectarinia aspasia		1	1
Olive-backed Sunbird	Nectarinia jugularis		11	11
Orimson Sunbird	Aethopyga siparaja		2	2
/ellow-sided Flowerpecker	Dicaeum aureolimbatum	*	14	14
Grey-sided Flowerpecker	Dicaeum celebicum	-	9	9
emon-bellied White-Eye	Zosterops chloris	**	3	3
Pale-bellied White-Eye	Zosterops consobrinorum	*	4	4
Chestnut Munia	Lonchura malacca		4	4
				]
OTAL SPECIES: 45				
SULAWESI ENDEMICS: 17				
NDONESIAN ENDEMICS: 1	described about the control of the c			
OTAL TIME: 3h				
EAMS: 1	<u> </u>		L . L	

SQUARE	34			İ
DATE			17/7	Max
			L	Cour
SURVEY TIME			85m	
. ma sama ang saga agan agan agan agan agan amayan sabis bari sabi sabis abis abis abis sabis sabis dabi dabis dabi dabis dabi	The state of the s			1
COMMON NAME	SYSTEMATIC NAME			<u> </u>
Brahminy Kite	Haliastur indus		1	1_
Sulawesi Serpent-Eagle	Spilornis rufipectus	<u> </u> *	1 1	1
Spotted Kestrel	Falco moluccensis	**	2	2
Spotted Dove	Streptopelia chinensis		2	2
Green Hanging-Parrot	Loriculus exilis	*	1	1
Lesser Coucal	Centropus bengalensis		2	2
Bay Coucal	Centropus celebensis	*	2	2
Collared Kingfisher	Halcyon chloris		5	5
Red-knobbed Hornbill	Rhyticeros cassidix	*	4	4
Pacific Swallow	Hirundo tahitica		7	7
White-rumped Cuckoo-Shrike	Coracina leucopygia	*	5	5
Sulawesi Cicadabird	Coracina morio	•	2	2
Hair-crested Drongo	Dicrurus hottentottus	į	2	2
Black-naped Oriole	Oriolus chinensis		4	4
Slender-billed Crow	Corvus enca		5	5
White-breasted Woodswallow	Artamus leucorhynchus		4	4
vory-backed Woodswallow	Artamus monachus	*	1	1
Sulawesi Crested Myna	Basilornis celebensis	*	7	7
White-necked Myna	Streptocitta albicollis	*	2	2
Black Sunbird	Nectarinia aspasia		2	2
Olive-backed Sunbird	Nectarinia jugularis		2	2
Crimson Sunbird	Aethopyga siparaja		2	2
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	*	3	3
Grey-sided Flowerpecker	Dicaeum celebicum	*	4	4
Pale-bellied White-Eye	Zosterops consobrinorum	7	2	2
	and the state of t			
TOTAL SPECIES: 25				
SULAWESI ENDEMICS: 12	red video film to the film that the film that he had a sum to the contract of			
NDONESIAN ENDEMICS: 1				<u> </u>
OTAL TIME: 1h25m				
EAMS: 1		1 1		<u> </u>

		110m		<u> </u>	Count
		.11Ωm i			E
2		1 (1/11)	90m	105m	
SYSTEMATIC NAME					<del></del>
the state of the s			1	f	1_
Pandion haliatus		3	1		3
		1	1		1
Spilornis rufipectus	•	1	1	1	11
ctinaetus malayensis				1 1	1
Spizaetus lanceolatus				<del> </del>	- <del> </del> 2
			<del>'                                    </del>	++	2
Gailirallus plateni			-	2	2
Streptopella chinensis			1	T	3
Turacoena manadensis		·	1		2
	i	11			11_
	277	10	26	<u> </u>	26
Ptlinopus melanospila		·			15 26
Ducula rosacea		<u> </u>		111	4
		·	-4-	┼	4
Cacatua sulphurea		<u> </u>	<del></del>	3	>3
		<del></del>	1	3	3
	•	1		5	5
	*	20	19	19	20
Tanygnathus megalorynchos		6	9	6	9
Tanygnathus sumatranus		3_	1 4	1	4 2
		<del> </del>	<u> </u>		1
Surniculus lugubris	a	<del> </del>	1 4		4
Eudynamys melanorhyncna	<u> </u>	4	+	╅╼	4
Phaenicophaeus calyornylichus		3	1 1	3	3
Cantronis celebensis		4	4	8	8
Hemigrocae longipennis		4	Ī		4
Collocalia esculenta		2	3	J.,	3
Halcyon melanorhyncha			<u> </u>		1 6
Halcyon chloris					5
					7
	<u> </u> _			5	5
		2	7	1	7
		2			2
	*	8	<u> I</u>		8
Coracina tenuirostris		1_1_			1-1
Coracina morio					10
Dicrurus hottentottus					11
				<del>-  </del>	3
				2	2
				3	9
		1		3	1 3
Hypothymis azurea puella		4	2		4
Culicicapa helianthea		1	7		7
Artamus leucorhynchus			<del></del> -	<del>-   - 9</del>	22
Artamus monachus			- 3	13	13
Aplonis panayensis		10	1		$++\frac{1}{7}$
Basilornis celebensis		14	9	9	14
Streptocitiza albicollis	<del></del>	37	3	11	37
Anthrentes malacensis		3	2		3
		3	5	4	5
Nectarinia jugularis		5	3_		12
Dicaeum aureolimbatum					7
Dicaeum nehrkorni					+
Dicaeum celebicum					+ 12
			<del></del>	14	14
Zosterops consobnnorum	<del>-</del>	<del>- </del> -	+	<del></del>	
and the state of t		1			
					1
	Spizaetus lanceolatus Falco moluccensis Gallirallus plateni Streptopelia chinensis Macropygia amboinensis Turacoena manadensis Turacoena manadensis Treron vernans Treron griseicauda Pttinopus melanospila Ducula rosacea Ducula luctuosa Cacatua sulphurea Trichoglossus ornatus Loriculus exilis Prioniturus platurus Tanygnathus megalorynchos Tanygnathus sumatranus Cacomantis merulinus Surniculus lugubris Eudynamys melanorhyncha Phaenicophaeus calyorhynchus Centropus bengalensis Centropus celebensis Hemiprocne longipennis Collocalia esculenta Halcyon melanorhyncha Halcyon chloris Coracina benuirostris Rhyticeros cassidix Mulleripicus fulvus Coracina leucopygia Coracina leucopygia Coracina leucopygia Coracina leucopygia Coracina boilor Coracina boilor Coracina boilor Coracina biolor Coracina leucopygia Coracina tenuirostris Coracina morio Dicrurus hottentottus Oriolus chinensis Corvus enca Corvus enca Corvus typicus Trichastoma celebense Muscicapa latirostris Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus Artamus leucorhynchus Artamus monachus Aplonis panayensis Basilornis celebensis Streptocitta albicollis Scissirostrum dubium Anthreptes malacensis Nectarinia jugularis Dicaeum aureolimbatum	Haliaeetus leucogaster Spilornis rufipectus Ictinaetus malayensis Spizaetus lanceolatus Falco moluccensis Gallirallus plateni Streptopelia chinensis Macropygia amboinensis Turacoena manadensis Treron vernans Treron griseicauda Ptlinopus melanospila Oucula rosacea Oucula luctuosa Cacatua sulphurea Trichoglossus ornatus Loriculus exilis Prioniturus platurus Tanygnathus sumatranus Cacomantis merulinus Surniculus lugubris Eudynamys melanorhyncha Phaenicophaeus calyorhynchus Centropus celebensis Hemiprocne longipennis Collocalia esculenta Halcyon melanorhyncha Halcyon melanorhyncha Halcyon chloris Coracias temminckii Penelopides exarthatus Rhyticeros cassidix Mulleripicus fulvus Coracina biccior Coracina leucopygia Coracina leucopygia Coracina tenuirostris Corous enca Corvus typicus Trichastoma celebense Muscicapa latirostris Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus Artamus melanorhyncha Artamus monachus Aplonis panayensis Basilornis celebensis Streptocitta albicollis Scissirostrum dubium Antherptes malacensis Nectarinia aspasia Nectarinia aspasia Nectarinia aspasia Nectarinia aspasia Nectarinia nechicorii Cicaeum nechicorii Dicaeum nechicorii Dicaeum celebicum Dicaeum nechicorii Costerops chloris	Haliaeetus leucogaster 1 Spilornis rufipectus 1 Ictinaetus malayensis 2 Spizaetus lanceolatus 5 Falco moluccensis 2 Gallirallus plateni 2 Streptopelia chinensis 2 Macropygia amboinensis 3 Turacoena manadensis 7 Turacoena manadensis 7 Treron vernans 111 Treron griseicauda 11 Treron griseicauda 11 Ducula rosacea 11 Ducula luctuosa 11 Caratua sulphurea 11 Trichoglossus ornatus 11 Coriculus stigmatus 11 Loriculus stigmatus 11 Loriculus exilis 11 Prioniturus platurus 12 Tanygnathus megalorynchos 11 Tanygnathus sumatranus 13 Cacomantis merulinus 13 Cacomantis merulinus 13 Sumiculus lugubris 14 Centropus bengalensis 14 Hemiprocne longipennis 14 Hemiprocne longipennis 14 Halcyon chloris 15 Coracina bencopygia 15 Coracina leucopygia 17 Coracina leucopygia 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19 Coracina leucorhynchus 19	Haliasetus leucogaster	Haliaeetus leucogaster

SQUARE	43	<del> </del>	ļ	1	1
DATE			09/8	22/8	Max
SURVEY TIME			300m	240m	Cou
		<u>-</u>	1000111	2-0111	
COMMON NAME	SYSTEMATIC NAME				1
Osprey	Pandion haliaetus	L		1	1
Barred Honey-Buzzard	Pemis celebensis		1		1
Spot-tailed Goshawk	Accipiter trinotatus	*		1	1
Small Sparrowhawk	Accipiter nanus	•	1		] 1
Sulawesi Hawk-Eagle	Spizaetus lanceolatus	•	1		1 1
Pink-necked Green Pigeon	Treron vernans			8	8
Grey-cheeked Green Pigeon	Treron griseicauda	**		2	1 2
Black-naped Fruit-Dove	Ptlinopus melanospila			11	11
White Imperial Pigeon	Ducula luctuosa	•		2	2
Sulawesi Hanging-Parrot	Loriculus stigmatus	*		12	12
Green Hanging-Parrot	Loriculus exilis	*	1	1	1
)rongo Cuckoo	Surniculus lugubris		11	11	<del>   </del>
Black-billed Koel	Eudynamys melanorhyncha	•	1		<del>  i</del>
iery-billed Malkoha	Phaenicophaeus calyorhynchus			5	5
Bay Coucal	Centropus celebensis		1	4	4
Grey-rumped Tree-Swift	Hemiprocne longipennis	<del> </del>	<del> </del>	23	23
Vhite-bellied Swiftlet	Collocalia esculenta	<del></del>	5	+ بع	5
Iniform Swiftlet	Aerodramus vanikorensis	<del></del> -	<del>                                     </del>	>50	>50
Collared Kingfisher	Haicyon chloris		5	$\frac{30}{3}$	5
Rainbow Bee-eater	Merops ornatus		2	-	
urple-winged Roller	Coracias temminokii		<del> </del>	19	19
nobbed Hornbill	Rhyticeros cassidix				1
acific Swallow	Hirundo tahitica	<del> </del>	4		4
Vhite-rumped Cuckoo-Shrike			1	3	3
ulawesi Cicadabird	Coracina leucopygia		2	4	4
- 10 - 400- 407- 401- 407- 401- 401- 401- 401- 401- 401- 401- 401	Coracina morio		1		1
lair-crested Drongo	Dicrurus hottentottus			4	4
llack-naped Oriole	Oriolus chinensis		1	12	12
ulawesi Babbler	Trichastoma celebense	*		7	7
ied Bushchat	Saxicola caprata	_		1	1
lack-naped Monarch	Hypothymis azurea puella		1	5	5
/hite-breasted Woodswallow	Artamus leucorhynchus		5	8	8
ory-backed Woodswallow	Artamus monachus	_ [		1	1
sian Glossy Starling	Aplonis panayensis			4	4
/hite-necked Myna	Streptocitta albicollis		_1	7	7
rown-throated Sunbird	Anthreptes malacensis		-	19	19
lack Sunbird	Nectarinia aspasia		2	6	6
live-backed Sunbird	Nectarinia jugularis		7	8	8
rimson Sunbird	Aethopyga siparaja		}	4	4
ellow-sided Flowerpecker	Dicaeum aureolimbatum	*	10	3	10
rey-sided Flowerpecker	Dicaeum celebicum	*	10	20	20
mon-bellied White-Eye	Zosterops chloris	**	1	4	4
ale-bellied White-Eye	Zosterops consobrinorum	•		5	5
OTAL COCCIEC: 40					
OTAL SPECIES: 42			<u> </u>		
ULAWESI ENDEMICS: 19	The second secon				
IDONESIAN ENDEMICS: 2					
OTAL TIME: 4h					
EAMS: 2		į	1	Ì	

SQUARE	44		_		-	-	-		-	-	-	-	-				
DATE	eg projekt jurijensju i krijanta Kurjent prospekty (jeroja i jefora je krajinte sekralarne merkenderi erderi r	13/6	13/6	14/7	16/7	16/7	1777	18/7 11	11/8 27	22/9 19/10	0 20/10	0 02/11	02/11	04/11	14/11	15/11	Max
SURVEY TIME	endelinen en en en en en en en en en en en en	145m	140m	360m	180m 1	175m 4	45m 3	310m 13	135m 30	300m 270m	m 210m	n 150m	ı 255m	135m	225m	300m	Count
COMMON NAME	SYSTEMATIC NAME		-						-			-					-
	<b>9</b> 7													٠		-	-
	Aviceda jerdoni	_	_					-					+				
The state of the s	Haliastur indus		-		7			-					+				7
gle	Spilornis rufipectus	*		4	4			-	-	9	-	~	-	+	4	2	g
*	Accipiter frinotatus					-	-			~	-	<b>~</b> -			1		7
-	Accipiter nanus	•	-														-
sted Sparrowhawk	Accipiter rhodogaster	•	2			-		tO.									c
The second secon	Ictinactus malayensis		-		****	***************************************	-	- water	-						-	3	က
ations of transfer or performed specifications and the second	Hieraaetus kienerii				- Indiabation of the section				-								-
Eagle	Spizaetus lanceolatus	*								_							
	Falco moluccensis	*					-				-						***
W	Gallus gallus		~		-		_			2	-	-	-		-		7
	Streptopella chinensis												m				က
6	Macropygia amboinensis	-		-	~							ω	<b>6</b> 0	m	မ		60)
)ove	Turacoena manadensis			'n	က			e.	_	2 2	-			7	60	7	æ
CON	Chalcophaps indica		-	~	-												m
	Chalcophaps stephani																-
	Treron vernans				7	m									4		4
geon	Treron griseicauda	4							1		-	m	-				=
	Ptinopus melanospila		ഹ		ო	_		2		14 4	4	<u></u>	16	ம	S	<b>-</b> -	೭
-igeon	Ducula radiata	4							2								5
	Ducula aenea			A shadow redebited a tark	Physilem theas	the state of the s	-	the state of the s	- deliberary			-			-		+
geon	Ducula rosacea	4	6			2	-	9	-	5 78	^	C)	13	18	ဖ	e,	18
The same of the sa	Ducula luctuosa	*				- Lunuarium	- Andrewson of the second	7	- Transport	9		~	2	***************************************		7	2
Cockatoo	Cacatua sulphurea	-	6				-	-				m	***************************************		1		თ
	Trichoglossus omatus	4	œ		-				-	10	-	7	9	1			7
rot	Loriculus stigmatus	•		1		1	-	-	_		+	2	6		6		6
í	Coriculus exilis	-	-	-	2	***************************************	-	7	+			2	2			-	2
acket-tailed Parrot	Prioniturus platurus	- 12	6			60		77					3,	6		ໝ	E
	f anygnathus megalorynchos			-	-			13	-	9	~	12	7	5			4
Culomest Houth Curbon	i anygnamus sumairanus			+		Total Control of the	- the state of the		-			1	2	n		5	>
	Occupies safuration	-		-			distribution and	Name of Street, or other Persons	and distribution of the sales	-	-	-		-		Ī	-   +
	Cacomantis merulinus	-	-			-	-	-	-		-	2	+	-			- 2
Suckoo	Chryxsococcyx russatus			-			i			-		L		-			-
THE PARTY OF THE P	Surniculus lugubris					-		-				-	+			~	7
	Eudynamys melanorhyncha	*	-	2				-		2	6	က	6				က
00	Scythrops novaehollandiae		-		1		The state of the s				***************************************	7	nered numerous		2		2
Ilkoha	Phaenicophaeus calyorhynchus		2		0		1	716	7	3	7	1	_	_		က	>16
C3	Contropus bengalensis	-		2	2	ю.	the state of the s			5			n	2	The state of the s		ý
AND THE PROPERTY OF THE PROPER	Centropus celebensis	4	4	-	2	4		>12		2	***		•	7	13	*2	>12
Collawes Scops-Cwi	Cius managensis			***************************************			o ;		***************************************			inglinguran augus	1				s (
	Continuitore officie	1	-			-	7	-	+	$\frac{1}{1}$	+	+		-			<b>,</b>
a-Swift	Hemiprocea longipennis	-	-	×15	4	- 60	-	5.	+	8		2	σ	ď	4	ļ	- 21
The state of age of the state o	Collocalla esculenta		-		67	)	-	3	-			`	, ~		ď	٠,	
	Aerodramus vanikorensis					-	-	4			-	. S		60	7	-	• •0
her	Haleyon chloris		-	-	9	4		7	2				6	6	-		7
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SCUAKE	44			-					-	-	_	-	-				
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SIRVEY TIME		1					+								+	مست	Count
VOCA V M. 1 - 1 M VII.		145m	ո 140m	. 360m	180m	175m	45m	310m	135m 3	300m 2	270m 21	210m 150m	m 255m	im 135m	m 225m	300m	
COMMON NAME	SYSTEMATIC NAME	-							-	$\dashv$							
Common Kingfisher		-					+		-			-			-		
Rainbow Bee-eater	Merops omatus		L		>1.				T	05.4	7	-	+	+	-		-
Purple-winged Roller				-	-	-	-	2		÷	+	╁	+	-			8
Sulawesi Hornbill	atus		2	4		2		15	1	+-	7 0	+	+	+	٥	c	Ç,
Red-knobbed Hornbill			60	60	2	4		29	9	6	10	15	0	π	o <del>4</del>	n o	C 4
Sulawesi Pygmy Woodpecker		-					<del> </del>			+-	╀	╁	+	+	2	P	٠ -
Asny Woodpecker		Ц		ဖ				4	-	-	-	12	6		•	+	- 2-
	Pitta erythrogaster		-				-	-			4	╁	+		4 44	- Y	7 4
Pacific Swallow	Hirundo tahitica	_			4		-	<u> </u>			-	and the second s	-	•	_	?	,
Pied Cuckoo-Shrike	Coracina bicolor	~		'n				4	-	<u> </u>	-	-	-	1 10	-	-	
Write-rumped Cuckoo-Shrike	Coracina leucopygia		က	ო	2	9			-	-	0	14	-	and the same	***************************************		7
Common Cleadabild	ostria	-	2	S.	2			ស		4	-	$\vdash$	+	-	-		r v
Outwood Contabile				7				3		S	-	6	O	-	-	-	0
Market State of Table	Larage Ingral reucopygialis	_	- The state of the							9			2	_			
Half-Seeted Disease	Calage sueuri			m						2			-		-		> [
		9	0	15	6	€		>20		6	-	-	•	m	Œ		, ,
Diack-raped Office	Criolus chinensis	7	æ	33	2	4		12	9	5	1 6	^	6	(0	_	5	47
	Corrus enca	-				4		~	-			-	u.	,	-  -	?	2 4
Piping Crow	Corvus typicus	_	7	4		m		4	-	2	-		-	10	-		, -
Surawesi babbier	Trichastoma celebense	co	7	မှ	80	~		15		20	·	ľ	+	4 4	, ç	•	,
Golden-headed Cisticola	Cisticola exilis					-	-	-	***************************************			-	•	>	2	-	3,
Asian Brown Flycatcher	Muscicapa latirostris							<del> </del>		-	+	+	1	*	1		7
Black-naped Monarch	Hypothymis azurea puella	4	-	8	5	S		2	and the second s	1		-	43	-	•	to the second se	
Citrine Flycatcher	Culicicapa helianthea	5	-	6				9	H	-	7 7	n t	2	_	1		2
White-breasted Woodswallow	Artamus feucorhynchus	3						6	-	2	-		7		*	r	0 0
Wory-backed Woodswallow	Artamus monachus	_		2				4	<u> </u>	7	4	-	- 5	-		3	8
Asian Glossy Starling	Aplonis panayensis			7	ო				-	-	1	-	σ	-	-	-	- 0
Surawesi Crested Myna	Basilornis celebensis		င	ß		2	-	-		7	-	-	1		-		,
Wilte-necked Myna	Streptocitta albicollis	7	4	18	7	4		0		-	-		36	-	1		- 4
Finen-billed lwyna	Scissirostrum dubium	16		×50	2			12	-	-	5	ß	6	22	+	_	701.
Block Starkind	Anthreptes majacensis	- -			7	က		2		5	<u> </u>	-	_	$\vdash$	-		7
Cive-backed General	Noctarina aspasia	0	-		2	-		so.		-	-		-	-	_	-	9
Crimson Supplied	Aethoring Liperals	2		-	ļ	1		ဗ			2 1	2	2	11		-	11
Yellow-sided Flowernecker	Dicagnitic and a line	1	-	0		The second second	-	-	-	2	•		-		-		80
Crimson-crowned Flowerpecker			-	o	0	n	+	=	4			e	10		2		#
Grey-sided Flowerpecker	T	7		-	31	1	- The state of the			1	12	-	-		-		12
Lemon-bellied White-Eye		L	1	_	2		+	0 1	0	+	E .	<b>-</b>	9	12	9		17
Pate-bellied White-Eye	rinorum	*		•	r «	-	***************************************	, 5	+	7	-		2	14			14
Black-faced Munia		•			,	100		, «,	-	+	-	1	-	2	-		80
Chestnut Munia				-	- Charles and American	100	-	2 g		-	-		7	- Augustina		The second second second	8
Pale-headed Munia	Lonchura pallida	*	_			94	+	× 6		+	+	-	1	-	1		3 0
						- Annual Printer	Park Halledon	- Company	-	-	and the state of t	-			-	-	0
ICIAL SPECIES: 90							-	-	<u> </u>	$\vdash$	-	+	-	-	_	T	
SULAWESI ENDEMICS: 36											_		-	-	-		***************************************
RUCUROSAN ENCEMICS: /		_							-				-	-	-		
TEAMS: 7	- All All All All All All All All All Al	_	4								-	-	_	<u> </u>	-	-	
I EAWS: 1		_									-	_	-	L	_		Ī
											4	4	1	-	-	-	

SQUARE	45	-				, and a			<u> </u>				Ì
DATE			13/7	15/7	11/8	12/8	21/9	22/9	23/9	19/10	03/11	14/11	Max
		-	165m	210m	360m	210m	120m	120m	165m	105π	160m	105m	
SURVEY TIME			100111	2.1011		1	12011						1
COMMON NAME	SYSTEMATIC NAME	Ì								Ī.,			ļ
Little Pied Cormorant	Phalacrocorax melanoleucos	10.00	<u> </u>	<u> </u>	ļ	<u> </u>		1	ļ	1	1		1
Great-billed Heron	Ardea sumatrana	Ţ.	<u> </u>			ļ			<u> </u>	<del> </del>	1		1 1
Purple Heron Little Egret	Ardea purpurea Egretta garzetta nirgipes	-	<del> </del>	<del>                                     </del>	<del> </del>	-		<del>                                     </del>	<u> </u>	1	1		1
Javan Pond-Heron	Ardeola speciosa	_	1			1	1						1
Striated Heron	Butorides striatus					ļ		4		Ĺ			4
Cinnamon Bittern	ixobrychus cinnamomeus	+	<u> </u>	<u> </u>	ļ	<del> </del>	1 2	1	<u> </u>	1	2	1 1	1 2
Woolly-necked Stork	Ciconia episcopus		<u> </u>	ļ		<u> </u>		3	1		<del> </del>		3
Osprey Brahminy Kite	Pandion halianus Haliastur indus	╁	<del> </del>	<u> </u>	1	1		1	<del></del>	Ì	<b>†</b>		1
White-bellied Sea-Eagle	Haliaeetus leucogaster	+-				1		1	1				1
Sulawesi Serpent-Eagle	Spilornis rufipectus	*						2			<u> </u>	<u> </u>	2
Spot-tailed Goshawk	Accipiter trinotatus	1	<u> </u>	1_	<del> </del>	<u> </u>			1	<u> </u>	<del> </del>		2
Black Eagle	Ictinaetus malayensis	*		<u> </u>	<del> </del>	1		<del></del>		<del> </del>	<del> </del>	1	11
Sulawesi Hawk-Eagle Spotted Whistling Duck	Spizaetus lanceolatus  Dendrocygna guttata	<del></del>	<u> </u>		<del>                                     </del>	<del>  '</del> -	2	<del>                                     </del>	<del> </del>				2
Sunda Teal	Anas gibberifrons	-	2		<del>                                     </del>		4				3		4
Tabon Scrubfowl	Megapodius cumingii	İ	1										1
Red Junglefowl	Galius gallus	Ţ						ļ	1	<u> </u>	-	1	1 1
Buff-banded Rail	Gallirallus philippensis		1 2		<del> </del>	<del> </del>	15	<b> </b>	<u> </u>	9	10	<b> </b>	15 2
Barred Rail	Gallirallus torquatus Aramidopsis	-  *	1		<u> </u>	<del> </del>			ļ	<u> </u>			1
Snoring Rail White-breasted Waterhen	Amauromis pheonicurus	-	1		<del> </del>		6						6
White-browed Crake	Porzana cinerea						3						3
Common Moorhen	Gallinula chloropus				į	1	2						2
Common Sandpiper	Actitis hypoleucos							1		<u></u>			1_1_
Spotted Dove	Streptopelia chinensis	-	ļ		<u> </u>	ļ	2		7	ļ			2
Slender-billed Cuckoo-Dove	Macropygia amboinensis Turacoena manadensis	-	ļ	1	1	ļ			2			6	6
White-faced Cuckoo-Dove Green-winged Pigeon	Chalcophaps indica	-		1					-				1
Pink-necked Green Pigeon	Treron vernans	-				1				10			10
Grey-cheeked Green Pigeon	Treron griseicauda		>15		2			2	11	2	2		>15
Black-naped Fruit-Dove	Ptlinopus melanospila			>10	8		2	3	14	40	5	5	14
Pink-headed Imperial Pigeon	Ducula rosacea		_5_	12 6	10	ļ	7		22 1	12	15	8 6	10
White Imperial Pigeon Ornate Lorikeet	Ducula luctuosa Trichoglossus omatus			-	<u> 10 </u>	<del> </del>			2		3		3
Sulawesi Hanging-Parrot	Loriculus stigmatus	•		2	2	1			4		2		4
Green Hanging-Parrot	Loriculus exilis	*		1				1		1			1
Golden-mantled Racket-tailed Parrot		*		12					33	2	17	7	33
Great-billed Parrot	Tanygnathus megalorynchos			4 6	1	<del>]  </del>	18	1	1 6/	22	11	3	22 18
Blue-backed (Muller's) Parrot Plaintive Cuckoo	Tanygnathus sumatranus Cacomantis merulinus	-		- 0		1	10		4		1		4
Indonesian Cuckoo	Cacomantis sepulcralis	**			ļ				4				4
Drongo Cuckoo	Surniculus lugubris		1										1
Black-billed Koel	Eudynamys melanorhyncha	*					2		3		3	2	3
Fiery-billed Malkoha	Phaenicophaeus caiyorhynchus	*	-75		5	1_1_	<u>1</u> 3	2	2	5	3		5 10
Lesser Coucal Bay Coucal	Centropus bengalensis Centropus celebensis	Ļ	10	11	12	2	4		11	-3	2	4	12
Sulawesi Scops-Owl	Otus manadensis	-			_14							1	1
Grey-rumped Tree-Swift	Hemiprocne longipennis		8	15	2	4		14	6			>6	15
White-bellied Swiftlet	Collocalia esculenta			5					6			3	6
Moluccan Swiftlet	Aerodramus infuscatus	-	>15			>100						5	>15 >100
Uniform Swiftlet Great-billed Kingfisher	Aerodramus vanikorensis Halcyon melanorhyncha	-	>80	1		> 100		3					3
Collared Kinglisher	Halcyon chloris	+	7		3	1	5	2		3	4		7
Sacred Kingfisher	Halcyon sancta							1					1
Blue-eared Kingfisher	Alcedo meninting									1			1
Common Kingfisher	Alcedo atthis	-					2				1		2 >8
Rainbow Bee-eater	Merops ornatus		>8				3		3				3
Purple-winged Roller	Coracias temminokli Penelopides exarthatus	•		3			2		3			2	3
Sulawesi Hombill				5	1		5	j	7	4	5	3	7
Sulawesi Hombill Red-knobbed Hombill		•		•									3
Sulawesi Hornbill Red-knobbed Hornbill Sulawesi Pygmy Woodpecker	Rhyticeros cassidix Picoides temminckii	•							3				
Red-knobbed Hombill Sulawesi Pygmy Woodpecker Ashy Woodpecker	Rhyticeros cassidix Picoides terminickii Mulleripicus fulvus			11	4	2		2	7		2	1	11
Red-knobbed Hornbill Sulawesi Pygmy Woodpecker Ashy Woodpecker Red-bellied Pitta	Rhyticeros cassidix Picoides termininckii Mulleripicus fulvus Pitta erythrogaster	•				2					2	1 6	6
Red-knobbed Hornbill Sulawesi Pygmy Woodpecker Ashy Woodpecker Red-bellied Pitta Pacific Swallow	Rhyticeros cassidix Picoides termininckii Mulleripicus fulvus Pitta erythrogaster Hirundo tahitica	•		11	4	2		2			2	-	
Red-knobbed Hornbill Sulawesi Pygmy Woodpecker Ashy Woodpecker Red-bellied Pitta	Rhyticeros cassidix Picoides termininckii Mulleripicus fulvus Pitta erythrogaster	*					2		7 4 4		2	-	6 1 4 4
Red-knobbed Hornbill Sulawesi Pygmy Woodpecker Ashy Woodpecker Red-bellied Pitta Pacific Swallow Pied Cuckoo-Shrike White-rumped Cuckoo-Shrike Common Cicadabird	Rhyticeros cassidix Picoides temminckii Mulleripicus fulvus Pitta erythrogaster Hirundo tahitica Coracina bicolor Coracina leucopygia Coracina tenuirostris			11	3	4	2	1	7 4 4 2			-	6 1 4 4 2
Red-knobbed Hombill Sulawesi Pygmy Woodpecker Ashy Woodpecker Red-bellied Pitta Pacific Swallow Pied Cuckoo-Shrike White-rumped Cuckoo-Shrike Common Cicadabird Sulawesi Cicadabird	Rhyticeros cassidix Picoides temminckii Mulleripicus fulvus Pitta erythrogaster Hirundo tahitica Coracina bicolor Coracina leucopygia Coracina tenuirostris Coracina morio	***		11	4	4	2	1	7 4 4			-	6 1 4 4 2 2
Red-knobbed Hornbill Sulawesi Pygmy Woodpecker Ashy Woodpecker Red-bellied Pitta Pacific Swallow Pied Cuckoo-Shrike White-rumped Cuckoo-Shrike Common Cicadabird Sulawesi Cicadabird Sulawesi Pied Triller	Rhyticeros cassidix Picoides temminckii Mulleripicus fulvus Pitta erythrogaster Hirundo tahitica Coracina bicolor Coracina leucopygia Coracina tenuirostris Coracina morio Lalage [nigra] leucopygialis			11	3	4	2	1	7 4 4 2 2			6	6 1 4 4 2 3 1
Red-knobbed Hombill Sulawesi Pygmy Woodpecker Ashy Woodpecker Red-bellied Pitta Pacific Swallow Pied Cuckoo-Shrike White-rumped Cuckoo-Shrike Common Cicadabird Sulawesi Cicadabird Sulawesi Pied Triller Hair-crested Drongo	Rhyticeros cassidix Picoides temminckii Mulleripicus fulvus Pitta erythrogaster Hirundo tahitica Coracina bicolor Coracina leucopygia Coracina tenuirostris Coracina morio Lalage [nigra] leucopygialis Dicrurus hottentottus	***		11 2 2 24	3 3	2	2	1	7 4 4 2	2		-	6 1 4 4 2 2
Red-knobbed Hornbill Sulawesi Pygmy Woodpecker Ashy Woodpecker Red-bellied Pitta Pacific Swallow Pied Cuckoo-Shrike White-rumped Cuckoo-Shrike	Rhyticeros cassidix Picoides temminckii Mulleripicus fulvus Pitta erythrogaster Hirundo tahitica Coracina bicolor Coracina leucopygia Coracina tenuirostris Coracina morio Lalage [nigra] leucopygialis	***		11	3	4		1	7 4 4 2 2 2 14	2	4	7	6 1 4 4 2 3 1 24
Red-knobbed Hornbill Sulawesi Pygmy Woodpecker Ashy Woodpecker Red-bellied Pitta Pacific Swallow Pied Cuckoo-Shrike White-rumped Cuckoo-Shrike Common Cicadabird Sulawesi Cicadabird Sulawesi Pied Triller Hair-crested Drongo Biack-naped Oriole	Rhyticeros cassidix Picoides temminckii Mulleripicus fulvus Pitta erythrogaster Hirundo tahitica Coracina bicolor Coracina leucopygia Coracina tenuirostris Coracina morio Lalage [nigra] leucopygialis Dicrurus hottentotus Oriolus chinensis	The state of the s		11 2 24 9	3 3	2		1	7 4 4 2 2 2 14 16	1	2 6 2	7 6	6 1 4 4 2 3 1 24 15 5
Red-knobbed Hombill Sulawesi Pygmy Woodpecker Ashy Woodpecker Red-bellied Pitta Pacific Swallow Pied Cuckoo-Shrike White-rumped Cuckoo-Shrike Common Cicadabird Sulawesi Cicadabird Sulawesi Pied Triller Hair-crested Drongo Black-naped Oriole Slender-billed Crow	Rhyticeros cassidix Picoides temminckii Mulleripicus fulvus Pitta erythrogaster Hirundo tahitica Coracina bicolor Coracina leucopygia Coracina tenuirostris Coracina morio Lalage [nigra] leucopygialis Dicrurus hottentottus Oriolus chinensis Corvus enca	The second secon	1	224 9	3 3 11 6	2		1 2 2 2	7 4 4 2 2 2 14 16		2 6	7	6 1 4 4 2 3 1 24 16 5

SQUARE	45		].	ì	T T	j	Ī	1		]			1
DATE			13/7	15/7	11/8	12/8	21/9	22/9	23/9	19/10	03/11	14/11	Max
SURVEY TIME			405										Coun
COLLATIONS			165m	210m	350m	210m	120m	120m	165m	105m	160m	105m	ļ
COMMON NAME	SYSTEMATIC NAME		<del> </del>		]							<del></del>	<del> </del>
Citrine Flycatcher	Culicicapa helianthea	T		8	6	1			17				17
Mangrove Whistler	Pachycephala grisola							1					1
Yellow Wagtail	Motacilla flava									5			5
White-breasted Woodswallow	Artamus leucorhynchus		6	2		4	10	5		2			10
Ivory-backed Woodswallow	Artamus monachus	*						- <del>-</del>	4	-	8		8
Asian Glossy Starling	Aplonis panayensis						1		3	2	4		4
Sulawesi Crested Myna	Basilornis celebensis	-		1					3		2	1	3
White-necked Myna	Streptocitta albicollis	+		7	6	2			2		2	4	7
Finch-billed Myna	Scissirostrum dubium							<u>l</u>	_=_		5		5
Brown-throated Sunbird	Anthreptes malacensis	<del>-  </del>		1				3	5	4			5
Black Sunbird	Nectarinia aspasia	-			5			1	11	71			11
Olive-backed Sunbird	Nectarinia jugularis	_		1			+		1	<del>'</del> +	4	<del></del>	4
Crimson Sunbird	Aethopyga siparaja				1				1		7+		
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	*		6	7	3			2	5			7
Grey-sided Flowerpecker	Dicaeum celebicum	-	1	2	2	2	7	2	4	<del></del>	5		5
emon-bellied White-Eye	Zosterops chloris	**				2		-	3				3
Pale-bellied White-Eye	Zosterops consobrinorum	*			1				8		2		8
Scaly-breasted Munia	Lonchura punctulata		8					<del>-</del>					8
Chestnut Munia	Lonchura malacca	1					>125				25		>125
		1 1	<del></del>	1									- 143
Small Sparrowhawk species	Accipiter nanus/rhodogaster	*						1					1
em species										6			6
OTAL SPECIES: 98			1										
SULAWESI ENDEMICS: 34		-+-								<del></del>		4	
NDONESIAN ENDEMICS: 6	1												
OTAL TIME: 28h40m							<u> </u>					4	<u> </u>
EAMS: 6													

SQUARE	47			
DATE			13/7	Max
				Count
SURVEY TIME			50m	1
COMMON NAME	SYSTEMATIC NAME			
Pink-headed Imperial Pigeon	Ducula rosacea	**	2	2
White Imperial Pigeon	Ducula luctuosa	*	1	1
Collared Kingfisher	Halcyon chloris		1	1
Red-knobbed Hombill	Rhyticeros cassidix	*	6	6
Ashy Woodpecker	Mulleripicus fulvus	•	2	2
White-rumped Cuckoo-Shrike	Coracina leucopygia	*	1	1
Hair-crested Drongo	Dicrurus hottentottus		1	1
Black-naped Oriole	Oriolus chinensis		2	2
Citrine Flycatcher	Culicicapa helianthea		1	1
Sulawesi Crested Myna	Basilomis celebensis	•	2	2
Brown-throated Sunbird	Anthreptes malacensis		2	2
Olive-backed Sunbird	Nectarinia jugularis		12	12
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	*	2	2
Pale-bellied White-Eye	Zosterops consobrinorum	*	1	1
		Ì		
TOTAL SPECIES: 14				
SULAWESI ENDEMICS: 7				
INDONESIAN ENDEMICS: 1				
TOTAL TIME: 50m				
TEAMS: 1				

SQUARE	48		İ	1
DATE			13/7	Max
				Coun
SURVEY TIME	ar the Maria Charles and the San San San San San San San San San San		60m	
COMMON NAME	SYSTEMATIC NAME		<del>  </del>	1
Osprey	Pandion hallatus		2	2
Spotted Dove	Streptopelia chinensis		2	2
Black-naped Fruit-Dove	Ptlinopus melanospila		3	3
White Imperial Pigeon	Ducula luctuosa	4	3	3
Lesser Coucal	Centropus bengalensis	<u>-</u>	1 1	1
Bay Coucal	Centropus celebensis	*	3	3
Grey-rumped Tree-Swift	Hemiprocne longipennis	<del></del>	4	4
Collared Kingfisher	Halcyon chloris		4	4
Sacred Kingfisher	Halcyon sancta		2	2
Common Kingfisher	Alcedo atthis		1	1 1
Pacific Swallow	Hirundo tahitica	1	>19	>19
Sulawesi Pied Triller	Lalage [nigra] leucopygialis	•	1 1	1
Black-naped Oriole	Oriolus chinensis		2	2
Black-naped Monarch	Hypothymis azurea puella		3	3
White-breasted Woodswallow	Artamus leucorhynchus		8	8
Brown-throated Sunbird	Anthreptes malacensis		4	4
Black Sunbird	Nectarinia aspasia		3	3
Olive-backed Sunbird	Nectarinia jugularis		15	15
/ellow-sided Flowerpecker	Dicaeum aureolimbatum	*	4	4
Grey-sided Flowerpecker	Dicaeum celebicum	*	2	2
emon-bellied White-Eye	Zosterops chloris	**	7	7
Pale-bellied White-Eye	Zosterops consobrinorum	*	2	2
Black-faced Munia	Lonchura molucca	**	>9	>9
Vader species			1	1
OTAL SPECIES: 24				
ULAWESI ENDEMICS: 6				
NDONESIAN ENDEMICS: 2				
OTAL TIME: 1h				
EAMS: 1				

SQUARE	49		_	-	-	-								
UAIE	en en en en en en en en en en en en en e	12/6	6 047	260	23/7 0	07/8 07/8	78 C8/8	3 000	No.	S) C)	24.62	07700	,,,,,	
SURVEY TIME	To the best of the second seco	130	130m	c C C	1				.1 1	2			-	Count
	The second control of the second control of			2	CI III	mos mos	m 210m	n 180m	8	210m	8 E	80m 8	8 m	and the special order of the same
COMMON NAME	SYSTEMATIC NAME		-											
Purel Hero	Phalacrocorax melanoleucos			4	3	-							WHITTER	
White-faced Horn	Ardea purpurea					-		<u> </u>		-				4
Cross Execution and an annual contract of the	Ardea novaehollandiae				Market Colorador	-	Alexander		-		***************************************			
	Egretta alba				-	***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				***************************************			-
Intermediate Egret	Egretta Intermedia				*		***************************************	***************************************		-				-
	Egretta garzetta nigripes			-			The second second second second		- del programma malenda	Ж		4		ક્ષ
Javan Pond-Heron	Ardeola speciosa	-		-		-	- Annabel of the Spinisters			-				
Strated Heron	Butorides striatus	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	***************************************			The second second	t-characteristics and una	-				2		2
Cinnamon Bittern	Exobrychus clinamomeus		- Ave	2	0	Continue of the section of		***************************************		4	7	6		×10
Woolly-necked Stork	Clconia epíscopus	-			7	Total Control of the	The second second second	-						2
Osprey	Pandion haliaetus	7			7	-	Armenipess uplication passeggs			7		-		7
Black-shouldered Kite	Elanus caeruleus		Water Company of the Party of t	7	-	***************************************				2		- Charles - Char		
Brahminy Kite	Halastur inches		-		A Particular Landson Annual Landson La					ļ.	-		The state of the s	1
White-bellied Sea-Eagle	Halaeetis leitonaster				-	-				2	-	-	İ	
Grey-headed Fish-Eagle	Chthyophaga Johthyoette				2					-	-			
Sulawesi Serpent-Eagle	Spinors arthursts		mater partition and party.	400						-		-		7
Spot-tailed Goshawk	A Solister telester			<del>-</del>	3		2	4	in the second se	777	-	-	1	
Vinous-breasted Sparrowham	A COLUMN THE STATE OF THE STATE		-				-	e.	-		-	-		4
Silawe Hawk Earls	Accipiter modogaster		<del>-</del>				***************************************	- Commence			-		1	3
Spotted Kestral	Spizaetus lanceolatus	•		-		-	- Chief		-				1	
	raico moluccensis	:				-	***************************************	c	-	-		-	1	-
Strody Tool	Dendrocygna guttata	x			10		The second second second	2			-	-		3
Dayles Diet B1.	Anas gibberifrons	*		7	9		-			(				Ж
Facilic black Duck	Anas supercillosa				+					2		17		17
I abon Scrubiowi	Megapodius cumingli			the part of the pa	-	A		,	+	4	1			4
rced Junglerowi	Gallus gallus		-		- House of the latest of the l	-	) have been selected to a sele	-	1	-				-
Barred Kall	Gallirallus torquatus	-		+	-	-		7						2
Snoring Rail	Aramidopsis plateni	*		- 0	0	-		-		7				8
sabeline Waterhen	Amaurornis isabellinus			7	-	***************************************	-	-141						7
White-breasted Waterhen	Amaurornis pheonicurus			- Allenan appropri	-		- Charleston Contraction		***************************************		<b>-</b>			1
Pacific Golden Plover	Pluvialis fulva				פּ	-			1	-				9
Rurous-necked Stint	Calidris ruficollis	-		c	-		***************************************			73				21
Common Redshank	Tringa totanus	2		7 4	c		-		Telegraphy desirate		`	~		9
Common Greenshank	Tringa nebularia	ı ıc		- Company	7	***************************************				-	~	80	L	80
Wood Sandpiper	Tringa glareola	>		-	***************************************	Principal Margania	***************************************	The state of the s	, l					2
Common Sandpiper	Actitis hypoleucos	ឋ		+				***************************************		<b>₽</b>				6
Whimbrel	Numenius phaeopus	)		7				-		7	-	9		9
Bristle-thighed Curlew	Numenius tahitiensis	The body of the same of the sa		ر ا			***************************************				_		-	9
Spotted Dove	Streptopella chinensis	٥		c	***************************************				Hemisman			-		-
Slender-billed Cuckoo-Dove	Macropygia ambolnensis	7		7	4	-			7				F	4
White-faced Cuckoo-Dove	Turacoena manadensis		9		4	and springers and springers	•	က			2			4
Green-winged Pigeon	Chalcophaps Indica	<b>)</b>		7		Manage and other species	2	7	_		1			9
Stephan's Pigeon	Chalcophaps stephani		-		The second secon	The state of the s		1	-					+
Pink-necked Green Pigeon	Treron vernans	۵	- Company of the Comp	-	-	-		-						_
AND THE PROPERTY OF THE PROPER	The state of the s	)  -			13	_					æ			11
										-		_	-	

SQUARE	49		E	<u> </u>	-	-	بسسا		<b></b>						
DATE	de periode de la propessa de la compansa de la compansa de la compansa de la compansa de la compansa de la comp	-	12/6 0	8 2 8	09/7 23/7	07/8	3 07/8	888	860	868	208	21/8	22/10	7/11	Max
en een teen of en been en enemen bestemme mede en een eel te mod te famout en beste en en een en een een en ee Te en een en en en en en en en en en en e		- 19				dominante				The state of the s			<del></del>		Count
SURVEY IME	And the section of th	12	120m 12	120m 12	1.20m 2.50m	m2,1m	E E	1210m		3	710m	S .	8	E E	
COMMON NAME	SYSTEMATIC NAME	_	+			described of the second of the				1	-			-	Triania Principanta Hiberita atribi
Grey-cheeked Green Pigeon	Treron griselcauda	7.	_	1	16		-	-	9	-	2		-		16
Black-naped Fruit-Dove	Ptlinopus melanospila		8	2	2 2	2		11	14						14
Pink-headed Imperial Pigeon	Ducula rosacea	: :		-			9	13	10				-		13
White Imperial Pigeon	Ducula luctuosa										7	ល			7
Ornate Lorikeet	Trichoglossus ornatus	4		4				ω	7						ဆ
Sulawesi Hanging-Parrot	Loriculus stigmatus	•	4	-		2	-	ო	-	lead in both to be seed on the	ဗ		-		4
Green Hanging-Parrot	Loriculus exilis	•		2	1	2		ო	2						15
Golden-manifed Racket-tailed Parrot Prioniturus platurus	t Prioniturus platurus		ಬ					6			4				6
Great-billed Parrot	Tanygnathus megalorynchos					*		2	+						2
Plaintive Cuckoo	Cacomantis merulinus	Ì	_	2	**						<b></b>				2
Gould's Bronze-Cuckoo	Chrysococcyx russatus									7					2
Drongo Cuckoo	Surniculus lugubris								-				-		-
Black-billed Koel	Eudynamys melanorhyncha									-					<b>-</b>
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus			9	(1)			4	4						4
Lesser Coucal	Centropus bengalensis			-	2	2				2	9		7		ဖ
Bay Coucal	Centropus celebensis	*	2	4	2			5	6			7	2		5
Sulawesi Scops-Owl	Otus manadensis		-					-	-			- The second second	,		-
Great-eared Nightlar	Eurostopodus macrotis							12	<u>۲</u>						12
Grey-rumped Tree-Swift	Hemiprocne longipennis	^	×گ	6	3 1	9	ଞ	22	-		9	and and address of the latest			ଞ
White-bellied Swiftlet	Collocalia esculenta	^		×10 ×	>25 2	ر الا		-	χ	N	9				Š Š
Moluccan Swiftlet	Aerodramus infuscatus					2									2
Uniform Swiftlet	Aerodramus vanikorensis		છ		9	×ٌ	C						δ		К
Aslan Palm-Swift	Cypsiurus balasiensis		S S		2										8
Great-billed Kingfisher	Halcyon melanorhyncha	*	10000		-	-				-	1				2
Collared Kingfisher	Halcyon chloris	-	7	9		5	-	2	7	7	6	1	4		12
Sacred Kingfisher	Halcyon sancta	_	6	1	×13	+	-	-	die des des des des des des		ø		2		×13
Common Kingfisher	Alcedo atthis		-		1	1	1	1			the state of the s		-	T. Constitution of the Con	-
Rainbow Bee-eater	Merops ornatus	1	8	8	9	12 >41	18	0 >47	4	ဌ	8	Š			Š,
Broad-billed Roller (Dollarbird)	Eurystomus orientalis	1	1	-	-			-	-	7			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_
Sulawesi Hornbill	Penelopides exarthatus			- Parlice Control of the Parlice Control of t	MARCON PROPERTY.	***************************************	***************************************	``	4	-	volenderderderderderderderderderderderderderd	-			`
Ked-Knobbed Hornbill	Knyliceros cassidix	١.			4 0	-	A DESCRIPTION OF THE PERSONS		2 (			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			71
Asriy woodpecker	Mulleripicus fulvus	1	+	+	╬	+		8	0		5			-	2
Pacific owallow	Hirungo (aniica	1	$\dagger$	7	۰ ۲	4	0		-	-	Š		o		8
White-rumped Cuckoo-Shrike	Coracina leucopygia	1	4	, z	+	70.	1	-	٥						5
Common Cicadabird	Coracina tenuirostris		1	4	1		_	2							4
Sulawesi Cicadabird	Coracina morio	*	- Charleston	New Section Control	The collection of the collecti			4	7						4
Sulawesi Pied Triller	Lalage [nigra] leucopygialis	•	4	7	4	4		7			-	-	- nettebru throblessonette		4
White-winged Triller	Lalage suerii	_		-		-	-	H			1		-	-	၁
Hair-crested Drongo	Dicrurus hottentottus		8	ç	_	- 9	7	5	3				7		15
Black-naped Oriole	Oriolus chinensis		9	9		5	_	_	80	ထ	-		က		6
Slender-billed Crow	Corvus enca	_			2	2 2	-	- Contract of the Contract of		-	4		- Company of the Comp		4
Piping Crow	Corvus typicus	-		antibor to tendence		4	Table of Post State of State o	6	7				-	and any located darkers all the second	9
Sulawesl Babbler	Trichastoma celebense	_	8	12	-	4 7	-	6	8				5		12

SQUARE															
DATE	8		_	-											į
Aprilled in the state of the section	Anjahimme (anjahimman) 1944 mengapajahan 1949) tempanyi bedisanjah jih membanjahisan menjahan menjahan majakan	12	12/6 02	04/7 09/7	17 2317	7 07/B	07/8	g	800	8			ŧ		
SURVEY TIME	r de marie de de la composition de la formation de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition					The state of the s		<del>-}</del>	2	0	\$	21/8/2	22/10 7	7/11	Max
ramina belandi kan mataka da mataka kan kan kan kan kan kan kan kan kan	After the state of	12	120m 12	120m 12	Jm 230	120m 230m 150m	m 8	210m	180m	W.	24.0m	~∔			Count
COMMON NAME	SYSTEMATIC NAME											2	E C	ڪ ڪ	
Pled Bushchat	Saxicola caprata	1	-		-	-						-			de la company de
Golden-bellied Gerygone	Gerygone sulphurea	+	1		-	ß				က	2				
Clamorous Reed-Warbier	Acrecephalus stentoreus				2	-					-		-		0
Zitting Cisticola	Cisticola luncidis	-			-							The second second	-		7
Golden-headed Cisticola	Cisticola exilis		-			Printer presenting				-	+		and the same of th	and the last of th	
Grey-streaked Flycatcher	Muscicapa griseisticta		-		-	_						-	-		*
black-naped Monarch	Hypothymis azirea nicella		-		- Andrews						and the second second	-			
Citrine Flycatcher	Culicicapa helianthea		9		6	distribution and second		2	2	77		-	-	-	
Grey Wagtall	Motacilla cinerea	1	-	-		-		2	4			<u></u>	-		0
White-breasted Woodswallow	Arlamus leucorhynchus	1	***************************************	1	+	-						1	100		חוני
Ivory-backed Woodswallow	Artamus monachie	ρ,		١٥	2	6	***			-	5		) «	The same of the sa	0
Figer Shrike	Lanus Ininis	4		15					-	-	· · · · · · · · · · · · · · · · · · ·	-	_		מ
Short-tailed Glossy Starting	Aplonis minor	1	2	-	_				7/1		-	-			5
Asian Glossy Starling	A STATE OF THE PARTY OF THE PAR		-		ო				-			-	-		2
Whiteharked Man	Aprollis panayensis	<u>ග</u>		2				-	***			-			က
Finch hillod & man	orreprocitta albicollis	*	2		c		-	-			Ŗ,	-			Ř Š
PI AM DAIR TOWN	Scissirostrum dubium	75	-	17	1			7	m			7	2		8
d Sunbird	Anthreptes malacensis	2		<b>!</b>		***************************************		, 8	×10	,	×255 ×	S	>7		25.
	Nectarinia aspasia	9	+ (	- 1	***************************************	***************************************			ß		1	-		T	3
plid	Nectarinia limitaria	٥	ام	2					7	-		-	***************************************	7	0
Andreas de la company i consessanda de la company de la co	Aethoryda ciparala		8	4	6	7		-	6		2			1	0
verpecker	Disperm autociment		Φ		7	-			0	T	-	-	***************************************		5
**************************************			4	4				C.	٥,	-		-	The second second second		ω
The same of the sa	Dicaculii Celebicum	_	თ	<b>*</b>		3		)	4 (			-		1	4
	Kosielops chloris	ဖ •	9	4	4	4		The same of the sa	) u		and the same	-	_		တ
	Zosierops consobrinorum	* 4	CI	_				r	) 		5	-			9
C. C.	Lonchura molucca	** 12	_			2		ر ا	<del></del>		The second secon			_	S
Checking Mania	Lonchura punctulata				-			-	-	87					200
Notice and the second s	Lonchura malacca					,		-		^	710			İ	×10
The second strike and production of the second strike and second s	The state of the s		-		7	243				^	88			Ŧ	3 5
Giossy Starling species	Aplonis minor/panayensis	-10-	-	Althouse to the second		-						<u> </u>		‡	70,
	the state of the s		1	-	2		-				-			$\pm$	140
TOTAL SPECIES: 113	and the state of t	-	-		-				-	-			-	$\dagger$	014
SULAWESI ENDEMICS: 30			-						-		-	-		1	-
INDONESIAN ENDEMICS: 6	A COLUMN TO THE PARTY OF THE PA	-	-			-		-	_	-		-	1	+	
IOTAL TIME: 27h10m	A CALLED AND AND AND AND AND AND AND AND AND AN		-	-						-	-	1	-	1	
LEAMS: 8	A constitution of the cons		_							-	-			1	Tables and the same of the sam
		-				7					-	-	-	+	

SQUARE	50	<u> </u>	2		1			
DATE	Ministry personal responses your years come to the residence years of the residence of the		18/7	08/8	21/8	21/8		Max
								Count
SURVEY TIME	The first raining to comprehensive raining raining and about the comprehensive the c		105m	150m	450m	180m		
- Marchine (April March April Special	ethorisch die die der den der der der der der der der der der der				<u> </u>	ļ	-	
COMMON NAME	SYSTEMATIC NAME				<u> </u>		-	~~~
Woolly-necked Stork	Ciconia episcopus		ļ			2_		2 2
Jerdon's Baza	Aviceda jerdoni			2	1	<u> </u>		<u></u>
Brahminy Kite	Haliastur indus		1	3	2	2		3
Sulawesi Serpent-Eagle	Spilornis rufipectus	*	1	<u> </u>	<del>  -</del> -			1
Spot-tailed Goshawk	Accipiter trinotatus Ictinaetus malayensis		1		<del> </del>	<del> </del>	-	1
Black Eagle	Falco moluccensis	**				1		1
Spotted Kestrel Oriental Hobby	Falco severus		1		İ			1
Tabon Scrubfowl	Megapodius cumingli				İ	1		1
Red Junglefowl	Gallus gallus		<u> </u>	2		1		2
Barred Rail	Gallirallus torquatus		1					1
Slender-billed Cuckoo-Dove	Macropygia amboinensis		1		2			2
Grey-cheeked Green Pigeon	Treron griseicauda	**	>30		<u> </u>	ļ		>30
Black-naped Fruit-Dove	Ptlinopus melanospila		1	1		4		<u> 4</u>
Pink-headed Imperial Pigeon	Ducula rosacea	**	4	9	<u> </u>	ļ	1	9
White Imperial Pigeon	Ducula luctuosa		1		<u> </u>	<u> </u>		
Omate Lorikeet	Trichoglossus ornatus	-		3_	<del> </del>	4		4
Sulawesi Hanging-Parrot	Loriculus stigmatus	*	6	1	ļ	<del>[</del>		<u>6</u> 2
Green Hanging-Parrot	Loriculus exilis	*		2 >16	2	6		>16
Golden-mantled Racket-tailed Parrot	Prioniturus platurus	<u>[</u>	<u> </u>	>10		1	-	1
Black-billed Koel	Eudynamys melanorhyncha	-	2		2	2		2
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	<u> </u>	8			2		
Bay Coucal	Centropus celebensis Otus manadensis				<del></del>	4	-	4
Sulawesi Scops-Owl Grey-rumped Tree-Swift	Hemiprocne longipennis		8	7	5	<del> </del>	1	8
White-bellied Swiftlet	Collocalia esculenta		>8	17	9	İ		17
Uniform Swiftlet	Aerodramus vanikorensis				12			12
Blue-headed Wood Kingfisher	Actenoides monachus	*		1				1
Great-billed Kingfisher	Halcyon melanorhyncha	*	1					1
Collared Kingfisher	Halcyon chloris		3		3			3
Blue-eared Kingfisher	Alcedo meninting		1		1			1
Rainbow Bee-eater	Merops ornatus		>6	>13	>5_	<u> </u>		>13
Sulawesi Hombill	Penelopides exarthatus		<u> </u>	4	<u> </u>	3		4
Red-knobbed Hornbill	Rhyticeros cassidix	*	8	5	3	2		8
Ashy Woodpecker	Mulleripicus fulvus	*			2 7	2	<u> </u>	2
Pacific Swallow	Hirundo tahitica	-		3	/_	ļ <u> </u>	$\vdash$	7 3
Pied Cuckoo-Shrike	Coracina bicolor	-		<u> </u>	1 1	2		2
Sulawesi Cicadabird	Coracina morio		2		<del>                                     </del>		$\dashv$	2
Sulawesi Pied Triller	Lalage [nigra] leucopygialis		6	8	4	2		8
Hair-crested Drongo	Dicrurus hottentottus Oriolus chinensis		3	6	6	2	-	6
Black-naped Oriole	Corvus typicus		1	4			H	4
Piping Crow Sulawesi Babbler	Trichastoma celebense		2	_ <u>-</u>	6	<u> </u>	H	-6
Black-naped Monarch	Hypothymis azurea puella		2	6	2	3	1	6
Citrine Flycatcher	Culicicapa helianthea			5	2	3 5		5
White-breasted Woodswallow	Artamus leucorhynchus				3			3
Asian Glossy Starling	Aplonis panayensis	1	14					14
White-necked Myna	Streptocitta albicollis	*	3	2	5	2		5
Finch-billed Myna	Scissirostrum dubium			>45	2	3		>45_
Black Sunbird	Nectarinia aspasia		1	1	5	1		5
Olive-backed Sunbird	Nectarinia jugularis		1	1	2	1		2
Crimson Sunbird	Aethopyga siparaja		1	3	3_			3
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	*	2 2		4	6	-	6
Grey-sided Flowerpecker	Dicaeum celebicum				5		$\dashv$	<u>5</u> 3
Lemon-bellied White-Eye	Zosterops chloris		1	1	3			<u> </u>
Pale-bellied White-Eye	Zosterops consobrinorum		1 1	- 1				
Small Saamankankanasia	A coiniter per us (rhadesacter		1				$\vdash$	1
Small Sparrowhawk species	Accipiter nanus/rhodogaster		1		<del> </del>		$\dashv$	
Buttonquail species	Turnix species		1		<del></del>	<del> </del>		
					<del> </del> -	l	1	
TOTAL SPECIES: 58		ł	1					
TOTAL SPECIES: 58 SULAWES ENDEMICS: 26					<u> </u>			
SULAWESI ENDEMICS: 26							-	

SQUARE DATE	·····	54				7			<i>j</i>	<del></del>		
the state of the s		and the same of th			1-1-	2/7	12/7	160				II
SURVEY TIME					<del>    ''</del>		141	10/10	1 7/10	18/1	0 01/1	1
		***			45	m	105m	126-	-			
COMMON NAM	E	Married Married Community of the Communi				***	<u> </u>	130m	225m	165n	n 135n	n
Little Grebe		SYSTEMATIC	NAME						ļ		\	
Little Pied Cormorant		Tachybaptus rufficollis			2							1
Milky Stork		Phalacrocorax melanol	eucos		1							T
Osprey		Mycteria cinerea								1	1	11
Black-shouldered Kite		Pandion haliaetus									1	
Brahminy Kite		Elanus caeruleus					1			1	1	<del>                                      </del>
Lesser Fish-Eagle		Haliastur indus				<u></u>	<u>l</u>			2	1	<del>  </del>
Sulawoo S		Ichthyophaga humilis							1	2	2	<del> </del>
Sulawesi Serpent-Eagle		Spilornis rufipectus				<u> </u>				1	2	
Spot-tailed Goshawk		Accipiter trinotatus						1	1			
Spotted Whistling Duck	The state of the s	Dendrocygna guttata						1	2	1		
Sunda Teal		Anas gibberifrons			13							
Red Junglefowl		Gallus gallus		>+	6	1	2					
White-breasted Waterhen		A maria				7			1			1
Common Sandpiper		Amaurornis pheonicurus				<del> </del>						1
Spotted Dove		Actitis hypoleucos			1	-				1		1
Slender-billed Cuckoo-Dove		Streptopelia chinensis		<del></del>	+					2		2
White-faced Cuckoo-Dove		Macropygia amboinensis			- <del></del>	<del> </del>			1			1
Grey-cheeked Green Pigeon		uracoena manadensis			+				5			9
Black-naped Fruit-Dove		reron griseicauda		**	<del></del>		_   :	4	1			4
M/hito halling I	F	Ptlinopus melanospila			<del> </del>		1		6   >	15	>10	>1
White-bellied Imperial Pigeon		Oucula forsteni						5		4		
Pink-headed Imperial Pigeon	ſ	ucula rosacea		*					1			5
White Imperial Pigeon	r	lucula luctuosa		**		5	1		3			1_
Ornate Lorikeet	T	rioba di acciuosa		*		23	8		******	-	12	17
Sulawesi Hanging-Parrot		richogiossus ornatus		•	2		13	f.			7	23
Green Hanging-Parrot		oriculus stigmatus		*		1	1			8		_ 13
Golden-mantled Racket-tailed Pa	LC	priculus exilis		*	<del></del> -			3	***************************************		4	4
Great-billed Parrot		ioniturus platurus		*	<del>-</del>	40	3		***************************************			3
Blue-backed (Muller's) Parrot	Ta	nygnathus megalorynch	OS.			19	26					26
Indonesian Cuckoo	18	inygnathus sumatranue					7	5	4	7		7
Drongo Cuckoo	Ca	comantis sepulcralis		**			7	4	1	1		7
Black-billed Koel	Su	miculus lugubris		┽┼			1			7		1
Channel-billed Cuckoo	Eu	dynamys melanorhyncha		<del> </del>	<u> </u>		1	2	1	1		2
Figo billed N. II	Sc	ythrops novaehollandiae				2	4	4	2	2	-++	
Fiery-billed Malkoha Lesser Coucal	Ph	aenicophaeus calyorhyno		4						1		4
cesser Coucal	Cer	ntropus bengalensis	inus			1	3		1			_1
Bay Coucal	Cer	ntropus celebensis		<u> </u>		1	3	2	2			3
Sulawesi Scops-Owl	Otio	s manadensis	-	•		4	7	8	<del></del> -			3
Great-eared Nightjar	Fue	October		*			1		<del></del>	-		8
Grey-rumped Tree-Swift	Llon	ostopodus macrotis					1	<del> </del>			11	1
White-bellied Swiftlet	nen O-1	niprocne longipennis					5		1 1			1
Iniform Swiftlet	Con	ocalia esculenta			·	<u>_</u>		11	6			11
Collared Kingfisher	Aerc	odramus vanikorensis					2	4				4
acred Kingfisher	Halo	yon chloris			5 2 3			>27	<u></u>			-27
ommon Kingfisher	Halc	yon sancta			2 3		4	4	2	1		4
ainbow Bee-eater	Alce	do atthis							2			2
ulawesi Hombill	Mero	ps ornatus		_1					1			1
-mirear Hurridolli	Pene	lopides exarthatus		3							<del>                                     </del>	
ed-knobbed Hornbill	Rhvti	ceros cassidix					4	2			+	
ılawesi Pygmy Woodpecker	Picnic	des temminckii	*		2		8	6				4
shy Woodpecker	Mulla	ripicus fulvus	*	2		1			1	-	******	3
ed-bellied Pitta	Ditto	invious iuivus	*				2	1	2		1	
cific Swallow	ritid 6	erythrogaster			_		1			1	2	2
d Cuckoo-Shrike		do tahitica	-								1	
nite-rumped Cuckoo Shrike	Corac	ina bicolor						5		T	5	
mmon Cicadabird	Corac	ina leucopygia				-		6			6	
awesi Cicadabird	Coraci	na tenuirostris			3	(	3	4		1	6	
awesi Pied Triller	Coraci	na morio		1	1	1		1			1	
Crested Dec	Lalage	[nigra] leucopygialis				2	2	6		1	6	
r-crested Drongo	Dicrun	is hottentottus						2				
ck-naped Oriole	Orinkie	chinensis				6		9	<del>,</del>		2	
nder-billed Crow	Corvus	V. III ICI ISIS			1	4			1		9	
ng Crow	Convus	ented			1	<b>├</b> ─-		<u> </u>	·		10	
wesi Babbler	Corvus	typicus	•	<b></b> -	1					6	6	
n Brown Flycatcher	Inchas	toma celebense			1-4-	_2			2		2	$\neg$
-streaked Flycatcher	Muscica	apa latirostris		<u></u>	1	_1			2		5	-
	Muscica	apa griseisticta			<u> </u>		1			_	1	
(-Daned Monree)			1 1		į į						-	
(-naped Monarch	Hypothy	mis azurea nuella		-	<del></del>			, ,	l {	1	; 4	
K-naped Monarch ne Flycatcher	Hypothy	mis azurea puella			1	3	2				1_1_	_
K-naped Monarch  Piycatcher  Wagtail  - breasted Woodswallow	Hypothy	Da helianthea			1	3	7				3 7	1

SQUARE	54	į.	1		1	İ			
DATE			12/7	12/7	16/10	17/10	18/10	01/11	Max
				-	1				Count
SURVEY TIME			45m	105m	135m	225m	165m	135m	
COMMON NAME	SYSTEMATIC NAME		ļ		<u></u>				
Asian Glossy Starling	Aplonis panayensis			<u> </u>			12		12
Sulawesi Crested Myna	Basilomis celebensis	•		4	2	2	1		4
White-necked Myna	Streptocitta albicollis	1		,	3				3
Finch-billed Myna	Scissirostrum dubium		>20		>50	>93	*****		>93
Brown-throated Sunbird	Anthreptes malacensis				1	4			4
Black Sunbird	Nectarinia aspasia			1	1	2	3		3
Olive-backed Sunbird	Nectarinia jugularis	ĺ		1					1
Crimson Sunbird	Aethopyga siparaja				1	1			1
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	*	7	1	2	4	1		7
Grey-sided Flowerpecker	Dicaeum celebicum	*		1	2	2			2
Lemon-bellied White-Eye	Zosterops chloris	**		2	-				2
Pale-bellied White-Eye	Zosterops consobrinorum	-		2			1		2
Black-faced Munia	Lonchura molucca	**	5				1		
Scaly-breasted Munia	Lonchura punctulata	İ	>15		ĺ				>15
Chestnut Munia	Lonchura malacca						>50		>50
TOTAL SPECIES: 81					<u> </u>				-
SULAWESI ENDEMICS: 28		1		··		i			
INDONESIAN ENDEMICS: 6		İ		<del> </del>	<u>-</u>			<del> </del>	
TOTAL TIME: 13h30m						<del></del>			1
TEAMS: 3		1			1				

SOUARE																	
The Fearman and the second and the s	Section of the contract of the						-										
Terrenanti indementajajon ridanturi janin rinsajajon rurturi didanti rindikanteranja i rimaka jung	ethaliffmuntri njekra ungjetjekemmaandja privijetej jekimjem najstjeknimti i ejikli untriska je unajsjekramte dob		2/7 09/B	B 10/8	3 23/8	88	046	05/0 05/0	000	<del></del>		L		***************************************			
SURVEY TIME	TOTAL MARKET AND AND AND AND AND AND AND AND AND AND			1	<del>-</del>	٠.		<del></del>	<del>-</del>	217	_,_,	15/10	16/100	15/10 15/10 16/10 01/11 01/11	11 15/11		Max
A THE PARTY OF THE	m minuskiri dirama ny imperiodona na rikajimira na napodi kiramani jeshiri ma manani jinda manama kiri sida pi	2	240m 105m	m 75m	8 mg	210m 2	225m 19	195m 270m	80	2,0		20	1				Count
COMMON NAME	Abbient profit des des principals of the second state of the second description and the second secon										5	8	EQ2	120m 130	130m 135m	_	
Little Grebe	SYSTEMATIC NAME						-					-					
peser Friedokind	l achypaptus ruficollis		>20 10		17	E				<u> </u>			Tree Speed land Comment				
	rregata arie		ļ.,			}		-	2			Ю		_	2	8	m
Little Fied Cormorant	Phalacrocorax melanoleucos		-	*	+	(	-	-								-	
Purple Heron	Ardea purpurea		1 C	- 0	-	7		-	_			-		-	-	- -	-
Striated Heron	Butorides striatus	+	+	7		1	-		<b></b>			-	-	-		4 (	
Cinnamon Bittern	Xohnonia Constantia Cinnama Constantia		-					-	-	-	-		1			7	]
Black Bittern	Nobrichie flautonia		4 3	-	ស	ស	2		4		- Additional of the second sec	+	- Indiana and a second		-	-	]
Woolly-necked Stork	SHOOK BUILDING TO THE STATE OF	-							-			-	1	***************************************	-	ဂ	
OSDEV	Cicollia episcopus					2	•	Andrew Property	•			-	-	+	+	-	
Riotischen	Pandion halaetus				Particular and Partic	***************************************	-		-	٥		4	7	2	7	9	
orach-airouluei ed Inte	Elanus caeruleus		,			-	***************************************	-	-	ກ	-		•			۳.	101
Branching Kile	Hallastur indus	,		-	The state of the s	and the same of the same of the same of		the spirit of th	-	7			-	-	The second secon		
White-bellied Sea-Eagle	Haliaeetus Introductur						-			က				-	-	4 0	1
Lesser Fish-Eagle	Cothophaga bumilia		- Marian	data-special section			_	-				-		-		<b>1</b>	
Sulawesi Serpent-Eagle	Collonia nutitation			_	_	-				-		1	-				
Sulawesi Goshawk	A - 1 - 1				<del>-</del>	-		Trimento chemina mana		-			-	***************************************	The state of the s	_	
Spot-Jalled Goshand	Accipiler driseiceps	*			-	and the same of th	Photos was a popular and page	All the second s						-	<del>-</del>	_	
	Accipiter trinotatus	*.			-		*		+		***************************************		_			-	
virious-oreasted Sparrowhawk	Accipiter rhodogaster	-	-	***************************************	-	***************************************	_	-	-				-			-	Transport
Diack Eagle	ictinaetus malavensis				-				-			-			-	4	
Spotted Whistling-Duck	Dendrocydna o Hata	•	+	-		The state of the s				-		-		And in constant of the second	and the street of the street o	-	
Wandering Whistling-Duck	Dandon and a second a second and a second and a second and a second and a second an	200	+	-	24	ଷ	28		छ	and the same party and the same		- 22		1	+	- 3	and the same
Sunda Teal	Anse rithorithan	/9	8	<b>Q</b>	12	116			4	***************************************		10		77	२ ०	8	-1.
Red Junglefowl	SIDE SIDE SIDE SIDE SIDE SIDE SIDE SIDE		-	4	Ж	8	-	Section of the section of	Q	the second secon	-	16	***************************************	1	7	116	0
Buff-handed Rail	Gailus gailus							***************************************	2	The second second		8		41	<u>ද</u>	141	_
	Gallifallus philippensis			-		+	and articularies of the britain	-	***************************************				-			-	
	Gallirallus forquatus					-		-								-	
Slaty-breasted Rail	Gallirallus striatus		***************************************			***************************************	-	-				-				***************************************	Ţ
sabelline Waterhen	Amaurornis isahalings	*	1			-										. *	T
White-breasted Waterhen	Amalianis phanning								2			-	-	_		- 6	T
Baillon's Crake	Porzana misila		+	-	3	4			4		The state of the s	4	C		C	7	***
White-browed Crake	Polizana cinatea	7										-	-	-	2	4 0	7
Purple Swamphen			_		4	2			ဗ		**************************************	-				7	1
Common Moorhan	r or phyrio porphyrio	2		·				-			<del> </del>	4	+	-	7	9	T
The first the second se	Gallinula chloropus	1	<u> </u>	ļ	10	17	Annual broken or a part of professional		-			-	-	*		4	
	Gallinula tenebrosa	1	>45	1,	2 5	ָ בְּוֹלָ			21.			— Ф	4	8	27	27	T
Colina-crested Jacana	Irediparra gallinacea		╁	-	2 0	0	7	-	>15			0	-	-	<del> </del>	Ϋ́	***************************************
Crey Plover	Pluvialis equatarola		)	-	o	<b>D</b> .	9		ဖ			ဆ	-	6 11	9	1	T
esser Sand-Plover	Charadrius mongoliis		***************************************		The second second second second						-	_		+-	+	2 -	1
Malaysian Piover	Character of the second contract of the secon						-					-	-	Andrews of the second	Triangle and the same of the s	-	-
Ruddy Turnstona	A STATE OF THE PARTY OF THE PAR		71.11.1				•	N				-	- Herena Canada Canada		***************************************		
Wood Sandninar	Alenana interpres							+				·	- Manual - Manual	- manufacture and professionary		7	1
Grevialled Tattler	i ringa giareola					-		-	***************************************				-	***************************************		-	
	Heteroscelus brevipes	-				and a state of the	-	-	***************************************	4	The state of the s			3		4	1
MANUAL SAINCE SA	Actitis hypoleucos	-	Top I represent the second of the second		***************************************	+	Mary Control of the C	C	-							-	
HIND CO	Numenius phaeopus		-	and the same and t	***************************************		-	0			1		_			Φ	-
Swillings Shipe	Gallinago megala		***************************************		****				-							-	<del></del>
Whiskered Tern	Childonias hybridus		-			*								-		+	1
	The second secon					_	1				~	 	-		-	-	-
									1			_					•

DATE DATE	<u> </u>		-			-								•		
The first terminate of the control o	er teranyentati ana telahan kangian danyi pada menjapah angiri danyi mjanda menjada menjada menjada menjada ma	127	09/8 10	10/8 23/8	නී	04/9	מאט	Q Q	<del></del>	( ) L		-		1		
SURVEY TIME	AMERIKAN PERUNTAN PER	- 1							217	2	200	13/10/13/10/14/10/1/11/01/11	1/11/01	111 15/11		Max
The state of the s	Andreas and includes any little and little and extended the same of the same o	240m 1	105m 75m	ш 8	210m	225m 195m 270m	5m 270	m 08 m	210m	19	150m 205		,		1	TI,
COMMON NAME	SYSTEMATIC NAME				der bindel gere present june.			·			3		musi most	135m	E	-
Pied Cuckoo-Shrike	Coracina bicolor	*	-						-			-	-			
White-rumped Cuckoo-Shrike	Coracina leuconvola	*		***************************************		_			-				- -		1	
Common Cicadabird	Coracina tenurostris		-	-	9	က	2 4	2	9		-		+	2		0
Sulawes Cicadabird	Coracina morfo		or other corrections and the contractions are the contractions and the contractions are the contractions and the contractions are the contractions are the contractions are the contractions and the contractions are the c		~	_	<u> </u>	4	-		•	-	*			0
Sulawesi Pled Triller	Lalade Injeral le roomeialle			7		· ·	9		0		٠,٠	ч		of personal construction		4
Hair-crested Drongo	Dicting hottenfolter	$-\frac{1}{2}$	***************************************					-			1	ם ני	-	7		10
Black-naped Oriole	Oriolis chipopele	2		2		_	-	e	7		ď	o (		+		0
Slender-billed Crow	Covide and		4	4		Ļ.	5	6	- α		) u	-	-	+		2
Piping Crow	Contra brains	87	12 9	27	7	1	17	ဗ	) <del>-</del>		יי כ	c	7	4	^	×10
Sulawesi Babbler	The state of the s			ന	1	L		)	-		اد	+			^	<del>-</del>
Pied Bushchaf	I IIChasioma celebense				+	7		_	-			4	C		_	-
Golden-headed Clettoda	SaxCola caprata				-			-	7	- Allegian and a	4	6	~		-	
Block named Manager	Cisticola exilis			-		-								-		
Olack-Haped Monarch	Hypothymis azurea puella		-	- Company of the Comp	-		-			_				Comment of the Commen	-	
Citrine Flycatcher	Culcicapa helianthea				The second second second	-					The state of the s	-	-	-		Ī.
White-breasted Woodswallow	Aramis la corbonsis					7			-		1	1	_		. 7	
Ivory-backed Woodswallow	Afamis monachis	17		-	4	×13 9	6	,	8	-	•	┿	-		7	-
Asian Glossy Starling	Animaliania	. 2				L		),(	)	-	-	+	Ď		7	_
Sulawesi Crested Muna	Apollis panayensis	က		2	-		Witness (Burley)	4	C		1	4	2 7		-	2
White nacked Myss	dasliornis celebensis	*				a			S		4	-			6	
MINISTER STATE OF THE PROPERTY	Streptocitta albicollis	*				0 9	Principal paraget		2			က			α	
First-billed lwyna	Scissirostrum dubium	-		Y	-	2	7	7	2	-	4	╁	╀	4	1	
Diowi-IIIoaled Sunbird	Anthreptes malacensis				V10	7			6			╀	13		4 2	
Black Sunbird	Nectarinia aspasia		And section to the second section to the se			က	ນ			-	╀	-	7		7	
Olive-backed Sunbird	Nectarinia II cularis			-		5		-	+		1	-			O I	
Crimson Sunbird	Aethopyoa sinaraia										-	-			۱	1
Yellow-sided Flowerpecker	Dicaetin atrodimatin	*							-		-	1,0	7		9	
Grey-sided Flowerpecker	Dealth capholin		***************************************	-		4	-		3	-	-	) «			9	
Lemon-bellied White-Eye	Zostarone oblocie		1)14440-14144			5 2	ဖ	2	٥	-	-		0		9	
Black-faced Munia	ODA BILLA PROFILEMENT CONTRACTOR			ဖ					-	-		-	*		6	
Scaly-breasted Munia		9				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	-	C	***************************************	-	0			ပ	
Chestnit Minia	Lorina purculata			_		-	of article support to the contract of the cont	-	2	-	0		-		5	_
TINE IN THE CONTRACTOR OF THE	Lonchura malacca	×	8	15,	×140				-		-				-	
White provide the second state of the second provide the second provide the second state of the second seco				Ť	4	2	-	-	-					-	7	ς
IOIAL SPECIES: 117	TOTAL TOTAL											-				2
SULAWESI ENDEMICS: 32	en i i de commendad de company de la ferma una company de company de company de company de company de company		-								_	7				
INDONESIAN ENDEMICS: 7	terran en en en en en en en en en en en en en		And of the last of		-			William State					- Mary Paris	***************************************	-	
IOTAL TIME: 42h50m	Toward the many special designation of the first of the f	The state of the s			-			-	-	-	-		-			-termina
TEAMS: 8	**************************************	endelter i hannabenser ausgeschild ausgeschild							-	-	-	-	Address of the Party of the Par	-		
Parameter 19 and			_						+	-				*****		
						1	-		~	_	_	_			_	

SQUARE DATE	56				
Table 1 2 Says			03/7	03/7	Max
SURVEY TIME				distribution	Count
A CANAL A LIANE			60m	45m	
COMMON NAME					
Little Egret	SYSTEMATIC NAME		į		
Striated Heron	Egretta garzetta nigripes		4		4
Woolly-necked Stork	Butorides striatus		4		4
Brahminy Kite	Ciconia episcopus		4		4
Sunda Teal	Hallastur indus		1		1
Red-backed Buttonquail	Anas gibberifrons	**	7	4	7
Snoring Rail	Turnix maculosa		1		1
Spotted Dove	Gallirallus plateni	*	2		2
White-faced Cuckoo-Dove	Streptopelia chinensis		4	1	4
Pink posked Cuckoo-Dove	Turacoena manadensis	*	3	1	3
Pink-necked Green Pigeon	Treron vernans		3	1	3
Black-naped Fruit-Dove	Ptlinopus melanospila		1	i	1
Pink-headed Imperial Pigeon	Ducula rosacea	**	9		9
White Imperial Pigeon	Ducula luctuosa	-	2		2
Ornate Lorikeet	Trichoglossus ornatus	*	2	2	2
Sulawesi Hanging-Parrot	Loriculus stigmatus	i <del>r</del>		5	5
Green Hanging-Parrot	Loriculus exilis	<u> </u>	8	<del></del>	8
Plaintive Cuckoo	Cacomantis merulinus		2		2
Grey-rumped Tree-Swift	Hemiprocne longipennis			3	3
Vhite-bellied Swiftlet	Collocalia esculenta		4		4
Collared Kingfisher	Halcyon chloris		8	3	8
acred Kingfisher	Halcyon sancta		4		4
Rainbow Bee-eater	Merops ornatus		>20		>20
shy Woodpecker	Mulleripicus fulvus	<del>-  -  </del>	-20	1	
acific Swallow	Hirundo tahitica		8	6	- <u>1</u> - 8
Vhite-rumped Cuckoo-Shrike	Coracina leucopygia	*	3		
air-crested Drongo	Dicrurus hottentottus		1		3
lack-naped Oriole	Oriolus chinensis		2		1
ulawesi Babbler	Trichastoma celebense		5		2
olden-bellied Gerygone	Gerygone sulphurea				5
ack-naped Monarch	Hypothymis azurea puella			9	9
/hite-breasted Woodswallow	Artamus leucorhynchus		3		3
sian Glossy Starling	Apionis panayensis			3	3
nch-billed Myna	Scissirostrum dubium		4		4
own-throated Sunbird	Anthreptes malacensis		5		5
ack Sunbird	Nectarinia aspasia			5	5
ive-backed Sunbird	Nectarinia aspasia			3	3
mon-bellied White-Eye	Zosterops chloris			1	11
aly-breasted Munia	Zosterops chions			8	13
	Lonchura punctulata		9		9
TAL SPECIES: 38					
ILAWESI ENDEMICS: 9	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
DONESIAN ENDEMICS: 3					
TAL TIME: 1h45m					
AMS: 1				1 1	

SQUARE	57		] ]	·	1	· · · · · ·	·
DATE			1-1	09/7	73/7	20/8	++
SURVEY TIME			1-1	0011	23/	_20/8	Ma
COLLACT THAIL			1-1	125m	1550	1 10m	Cou
COMMON NAME					1.001	1011	<del>-  </del>
Black Eagle	SYSTEMATIC NAME				ļ	<del>                                     </del>	1
Barred Rail	lctinaetus malayensis			1		†	1 1
Snoring Rail	Gallirallus torquatus			1	2	1	2
Isabelline Waterhen	Gallirallus plateni		•	1		-	1
Spotted Dove	Amaurornis isabellinus		*	1		1	
Slender-billed Cuckoo-Dove	Streptopelia chinensis			6		1	6
White-faced Cuckoo-Dove	Macropygia amboinensis Turacoena manadensis			1	1		1
Grey-cheeked Green Pigeon	Treron griseicauda		<u> </u>	1	1		1
Pink-headed Imperial Pigeon	Ducula rosacea			2			2
Yellow-crested Cockatoo	Cacatua sulphurea		**		2		2
Ornate Lorikeet	Trichoglossus ornatus		**			2	2
Sulawesi Hanging-Parrot	Loriculus stigmatus				2 6		2
Green Hanging-Parrot	Loriculus exilis		<u>!</u>				6
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus			1	1		1
esser Coucal	Centropus bengalensis			[_	1		1
Bay Coucal	Centropus celebensis		(	5	4	į	6
Grey-rumped Tree-Swift	Hemiprocne longipennis				2		2
White-bellied Swiftlet	Collocalia esculenta			3			13
Jniform Swiftlet	Aerodramus vanikorensis		2		>15		>15
Asian Palm-Swift	Cypsiurus balasiensis			11			>11
Collared Kingfisher	Halcyon chloris		<u></u>	~ ***	1		1
Rainbow Bee-eater	Merops ornatus		14	·	4		14
shy Woodpecker	Mulleripicus fuivus		>1;		9		>136
acific Swallow	Hirundo tahitica		<del>- -</del> -		1		1
ulawesi Pied Triller	Lalage [nigra] leucopygialis		5 2		1		5
/hite-winged Triller	Lalage sueurii				3		3
lack-naped Oriole	Oriolus chinensis		17				7
ied Bushchat	Saxicola caprata		2		2		2
olden-bellied Gerygone	Gerygone sulphurea		8				8
ack-naped Monarch	Hypothymis azurea puella		+	12			2
hite-breasted Woodswallow	Artamus leucorhynchus		+	2 2			2
pry-backed Woodswallow	Artamus monachus		6	2			6
ian Glossy Starling	Apionis panayensis		5				5
hite-necked Myna	Streptocitta albicollis		2				2
nch-billed Myna ack Sunbird	Scissirostrum dubium		4	2			4
ick Sundird	Nectarinia aspasia		<del> </del>	14	<u></u>		14
ve-backed Sunbird	Nectarinia jugularis		4	2			2
mson Sunbird	Aethopyga siparaja			2			4
y-sided Flowerpecker	Dicaeum celebicum			1 1			1
non-beilied White-Eye ck-faced Munia	Zosterops chloris		>30	2			2
cy-idea ivinuia	Lonchura molucca	**	>20				>30
onquail species			-20	<del> </del>			>20
roudual species	Tumix species		1	<del>                                     </del>		++	
TAL SPECIES: 42				<u> </u>		++	1
AWESI ENDEMICS: 13		$\dashv$	<del></del>	<del> </del>			
ONESIAN ENDEMICS: 13	the state of the s			<del> </del>	<del></del> -	<del></del>	
TAL TIME: 4h50m							
AMS: 3		<del></del>			+		
		<del></del>					

DATE	The state of the s		1	24/9	17/11	
SURVEY TIME	mparing and management of the second	The state of	- -	315n	1 180m	Co
	The state of the s		+-	10101	10011	<del>\</del>
COMMON NAME	SYSTEMATIC NAME		1-		1	<del> - </del>
Woolly-necked Stork Brahminy Kite	Ciconia episcopus		1	2	<del> </del> -	1 2
White-bellied Sea-Eagle	Haliastur indus		1	1		1
Sulawesi Serpent-Eagle	Haliaeetus leucogaster			2	1	7
Spot-tailed Goshawk	Spilornis rufipectus		*	3	1	1 3
Black Eagle	Accipiter trinotatus		•	1	1	1
Slender-billed Cuckoo-Dove	lctinaetus malayensis		T	T	1	1
White-faced Cuckoo-Dove	Macropygia amboinensis		T	5	1	5
Stephan's Pigeon	Turacoena manadensis		*	4		4
Grey-cheeked Green Pigeon	Chalcophaps stephani		I	1		1
Black-naped Fruit-Dove	Treron griseicauda		**	2	6	6
Pink-headed Imperial Pigeon	Ptlinopus melanospila			8	3	8
White Imperial Pigeon	Ducula rosacea		**	15	3	15
Ornate Lorikeet	Ducula luctuosa		•	21	>15	21
	Trichoglossus ornatus		•	5		5
Sulawesi Hanging-Parrot	Loriculus stigmatus		*	4	5	5
Green Hanging-Parrot	Loriculus exilis	····	*	2	1	2
Golden-mantled Racket-tailed Parrot	Prioniturus platurus		•	4		4
Great-billed Parrot	Tanygnathus megalorynchos				2	2
Blue-backed (Muller's) Parrot	Tanygnathus sumatranus		Ī	6	-=-	6
Channel-billed Cuckoo	Scythrops novaehollandiae				2	2
iery-billed Malkoha	Phaenicophaeus calyorhynchus		-	2		2
esser Coucal	Centropus bengalensis			1		1 1
Bay Coucal	Centropus celebensis		*	10	3	10
Grey-rumped Tree-Swift	Hemiprocne longipennis			33	6	33
Vhite-bellied Swiftlet	Collocalia esculenta			11		<del></del>
Iniform Swiftlet	Aerodramus vanikorensis				5	11
sian Palm-Swift	Cypsiurus balasiensis			1	<del></del> -	5_
lue-headed Wood Kingfisher	Actenoides monachus		_			<u> </u>
ollared Kingfisher	Halcyon chloris			1		1
ulawesi Pygmy Kingfisher				7	2	7
ainbow Bee-eater	Ceyx fallax	-		1	1	1
road-billed Roller (Dollarbird)	Merops ornatus			9		9
ulawesi Hombill	Eurystomus orientalis			1		1
ed-knobbed Hornbill	Penelopides exarthatus	<u> </u>		5		5
shy Woodpecker	Rhyticeros cassidix	10			11	11
acific Swallow	Mulleripicus fulvus	*			4	4
hite-rumped Cuckoo-Shrike	Hirundo tahitica			2		2
ommon Cicadabird	Coracina leucopygia			4	2	4
Ilawesi Cicadabird	Coracina tenuirostris			5		5
nir-crested Drongo	Coracina morio	*	T	4		4
ack-naped Oriole	Dicrurus hottentottus			9 :	2	9
ender-billed Crow	Oriolus chinensis				2	11
lawesi Babbler	Corvus enca		1	7		7
ack-naped Monarch	Trichastoma celebense	*	1	10 3	3	10
rick-slaped lylonarch	Hypothymis azurea puella		1	5 1		5
rine Flycatcher	Culicicapa helianthea		1	1		_ <u>_</u>
nite-breasted Woodswallow	Artamus leucorhynchus		17	6 2	<del>,      </del>	6
ry-backed Woodswallow	Artamus monachus	*		2		2
an Glossy Starling	Aplonis panayensis	_		7		7
nite-necked Myna	Streptocitta albicollis	-		7 4	.	7
ch-billed Myna	Scissirostrum dubium	_	\\ <	68 7		>68
wn-throated Sunbird	Anthreptes malacensis	1	4			4
ck Sunbird	Nectarinia aspasia		5			5
e-backed Sunbird	Nectarinia jugularis	1	2			4
nson Sunbird	Aethopyga siparaja	1	1		++	1
ow-sided Flowerpecker	Dicaeum aureolimbatum	-	2		++	23
y-sided Flowerpecker	Dicaeum celebicum	*	8			8
non-bellied White-Eye	Zosterops chloris	**	2	8		8
-bellied White-Eye	Zosterops consobrinorum	-	9	-		9
k-faced Munia	Lonchura molucca	**	·	8		
		+	<del>                                     </del>	<del></del>		>8
AL CRECIEC, CO	and the same that have not a state of the same time of the same time time time time time time time ti					
AL SPECIES: 59						
AWESI ENDEMICS: 23	er mende gan, elle e dije me e dije me am kuje me e dise die em sym dije dike me op dije dije me op me pe bij dije die die die die op op dije dije	1			-	
ACGRECIES: 39 AWESI ENDEMICS: 23 ONESIAN ENDEMICS: 4 AL TIME: 8h55m		1-			#	

SQUARE DATE	62		4045	
Control of the Contro	- The state of the		18/10	Max
SURVEY TIME			255m	Cou
0011101111				
COMMON NAME Woolly-necked Stork	SYSTEMATIC NAME			
Sulawesi Serpent-Eagle	Ciconia episcopus		2	2
Spot-tailed Goshawk	Spilornis rufipectus		1	1
Black Eagle	Accipiter trinotatus		11	1
Oriental Hobby	lctinaetus malayensis Falco severus		_   1	1
Red Junglefowl	Gallus gailus		1 1	1 1
Slender-billed Cuckoo-Dove	Macropygia amboinensis		1 1	1 1
White-faced Cuckoo-Dove	Turacoena manadensis		5	5
Stephan's Pigeon	Chalcophaps stephani		11	1
Grey-cheeked Green Pigeon	Treron griseicauda		5	1_1_
Black-naped Fruit-Dove	Ptlinopus melanospila		6	5
White-bellied Imperial Pigeon	Ducula forsteni	<u>j</u>  *		6
Pink-headed Imperial Pigeon	Ducula rosacea	**	5 4	5 4
White Imperial Pigeon	Ducula luctuosa		11	11
Ornate Lorikeet	Trichoglossus ornatus		2	2
Sulawesi Hanging-Parrot	Loriculus stigmatus	*	2	2
Solden-mantled Racket-tailed Parrot	Prioniturus platurus		11	11
Great-billed Раггоt	Tanygnathus megalorynchos		2	2
Orongo Cuckoo	Surniculus lugubris		1	1
Black-billed Koel	Eudynamys melanorhyncha		3	3
iery-bilied Malkoha	Phaenicophaeus calyorhynchus	*	8	8
Bay Coucal	Centropus celebensis	*	5	5
Grey-rumped Tree-Swift	Hemiprocne longipennis		>30	>30
lue-headed Wood Kingfisher	Actenoides monachus	-	1	1
Collared Kingfisher	Halcyon chloris		2	2
urple-winged Roller	Coracias temminckii		1	1
ulawesi Hombill	Penelopides exarthatus	<del>-  -</del>	2	2
ed-knobbed Hombill	Rhyticeros cassidix	+	7 1	7
ulawesi Pygrny Woodpecker	Picoides temminckii	<del>-  </del> -	1 1	1
shy Woodpecker	Mulleripicus fulvus	-	2	2
ied Cuckoo-Shrike	Coracina bicolor	*	3	3
/hite-rumped Cuckoo-Shrike	Coracina leucopygia	-	2	2
ulawesi Cicadabird	Coracina morio	*	3	3
air-crested Drongo	Dicrurus hottentottus		7	7
ack-naped Oriole	Oriolus chinensis		4	4
ping Crow	Corvus typicus	*	1	1
Jawesi Babbier	Trichastoma celebense	*	7	7
ack-naped Monarch trine Flycatcher	Hypothymis azurea puella		2	2
ory-backed Woodswallow	Culicicapa helianthea		2	2
Ilawesi Crested Myna	Artamus monachus	*	10	10
hite-necked Myna	Basilomis celebensis	*	2	2
own-throated Sunbird	Streptocitta albicollis	*	4	4
imson Sunbird	Anthreptes malacensis		1	1
ey-sided Flowerpecker	Aethopyga siparaja		1	1
A araca : Ionelbeckel	Dicaeum celebicum		3	3
TAL SPECIES: 45		-		
LAWESI ENDEMICS: 25				
DONESIAN ENDEMICS: 2		4-4		
TAL TIME: 4h15m				
AMS: 1				

SQUARE DATE	63			
	American cap class and cap cap cap cap cap cap cap cap cap cap		21/9	Max
SURVEY TIME	and the same of th		180m	Cour
	- The changes the same apply the region in production in a law open the reservation can cause any case open case open any case open applying a discharge to be a quarter of the change o		TOUTH	<del>-  </del>
COMMON NAME	SYSTEMATIC NAME	<del></del>		+
Striated Heron	Butorides striatus		2	+
Woolly-necked Stork	Ciconia episcopus		2	2 2
Sulawesi Serpent-Eagle	Spilornis rufipectus	*	2	2
Spot-tailed Goshawk	Accipiter trinotatus	*	1 1	1 1
Common Redshank	Tringa totanus		1 1	1
Grey-tailed Tattler	Heteroscelus brevipes		2	2
Common Sandpiper	Actitis hypoleucos			5
Whimbrel	Numenius phaeopus		5 2	
Siender-billed Cuckoo-Dove	Macropygia amboinensis	Ī	2	2 2
Grey-cheeked Green Pigeon	Treron griseicauda	**	2	2
Black-naped Fruit-Dove	Ptlinopus melanospila		3	3
Pink-headed Imperial Pigeon	Ducula rosacea	**	6	3 6
White Imperial Pigeon	Ducula luctuosa	*	3	3
Sulawesi Hanging-Parrot	Loriculus stigmatus	*	3	3
Green Hanging-Parrot	Loriculus exilis	*	1	1
Blue-backed (Muller's) Parrot	Tanygnathus sumatranus		3	3
Gould's Bronze-Cuckoo	Chrysococcyx russatus		2	2
Drongo Cuckoo	Surniculus lugubris		2	2
Fiery-billed Malkoha Bay Coucal	Phaenicophaeus calyorhynchus	*	2	2
	Centropus celebensis	*	4	4
Grey-rumped Tree-Swift Great-billed Kingfisher	Hemiprocne longipennis		19	19
collared Kingfisher	Halcyon melanorhyncha	*	2	2
common Kingfisher	Halcyon chloris		3	3
urple-winged Roller	Alcedo atthis		1	1
road-billed Roller (Dollarbird)	Coracias temminckii	*	5	5
led-knobbed Hombill	Eurystomus orientalis		3	3
acific Swallow	Rhyticeros cassidix	*	2 2	2
ied Cuckoo-Shrike	Hirundo tahitica	1	2	2
/hite-rumped Cuckoo-Shrike	Coracina bicolor	+	3	3
air-crested Drongo	Coracina leucopygia	*	3 3	3
lack-naped Oriole	Dicrurus hottentottus		3	3
ping Crow	Oriolus chinensis		7	7
ulawesi Babbier	Corvus typicus	*	2	2
olden-bellied Gerygone	Trichastoma celebense	*	8	8
ack-naped Monarch	Gerygone sulphurea		1	1
trine Flycatcher	Hypothymis azurea puella		3	3
angrove Whistler	Culicicapa helianthea		1   [	1
hite-breasted Woodswallow	Pachycephala grisola		3	3
hite-necked Myna	Artamus leucorhynchus		14	14
own-throated Sunbird	Streptocitta albicollis	*	2	2
ack Sunbird	Anthreptes malacensis		8 3	8
ve-backed Sunbird	Nectarinia aspasia		3	3
imson Sunbird	Nectarinia jugularis		9	9
llow-sided Flowerpecker	Aethopyga siparaja		2	2
ey-sided Flowerpecker	Dicaeum aureolimbatum	*	3	3
non-bellied White-Eye	Dicaeum celebicum	. *	1	1
le-bellied White-Eye	Zosterops chloris	**	2	2
c-benied vyinte-Eye	Zosterops consobrinorum	*	1	1
TAL SPECIES: 48				
LAWESI ENDEMICS: 18				
DONESIAN ENDEMICS: 18		<u> </u>		
TAL TIME: 2h	de Santon que de la companya de la c			
AMS: 1				7

DATE			10/6	10/7	22/7	02/9	08/9	20/9	26/9	14/100	6/11 11/1	1 Max
SURVEY TIME			1		Ì	Ì	1	1			25m 90n	100
			12WII	12011	240111	IZUM	120m	180m	195m	135m 2	25m 90m	<u> </u>
COMMON NAME Osprey	SYSTEMATIC NAME										<del> </del>	-
White-bellied Sea-Eagle	Pandion haliaetus Haliaeetus leucogaster		<del> </del>	<u> </u>	2	1						2
Sulawesi Serpent-Eagle	Spilornis rufipectus			1	1	_1						1 1
Sulawesi Goshawk	Accipiter griseiceps		† <b>-</b>				1			1	1 1	1 1
Spot-tailed Goshawk	Accipiter trinotatus	=	1		1	1				3		1 3
Little Sparrowhawk Vinous-breasted Sparrowhawk	Accipiter nanus						1					1 1
Black Eagle	Accipiter rhodogaster									1		11-1-
Sulawesi Hawk-Eagle	lctinaetus malayensis Spizaetus lanceolatus					1						1
Red Junglefowl	Gallus gallus				1	1		1				1
Barred Rail	Galfirallus torquatus				++							1_1_
White-breasted Waterhen	Amaurornis pheonicurus					1		<del></del>				1_1_
Slender-billed Cuckoo-Dove White-faced Cuckoo-Dove	Macropygia amboinensis			2	1	4	4	2		2 5	5 2	1 5
Stephan's Pigeon	Turacoena manadensis	-		2		3	3	6	1	1 8		8
Pink-necked Green Pigeon	Chalcophaps stephani Treron vernans				2							2
Grey-cheeked Green Pigeon	Treron griseicauda							2				Ž
Black-naped Fruit-Dove	Ptlinopus melanospila		4	-+	1	>12	3		_		2	>12
Pink-headed Imperial Pigeon	Ducula rosacea	**			4	5	4	3		3 4		6
Yellow-crested Cockatoo	Cacatua sulphurea	**		2	2	3	1	2		4 4		8
Ornate Lorikeet	Trichoglossus ornatus	•	2			<del>-</del> †-		-		3   1 3		3
Sulawesi Hanging-Parrot Green Hanging-Parrot	Loriculus stigmatus	*			5				-   -	<del>-   -</del>	11	3 5
Golden-mantled Racket-tailed Parro	Loriculus exilis	<b>a</b>			2						<del></del>	2
Great-billed Parrot										1	4	4
Blue-backed (Muller's) Parrot	Tanygnathus megalorynchos Tanygnathus sumatranus	-		1						3	3	3
laintive Cuckoo	Cacomantis merulinus	$\dashv +$				6			2	3		6
ndonesian Cuckoo	Cacomantis sepulcralis				1							1
Prongo Cuckoo	Sumiculus lugubris					1				_   1	4	1
lack-billed Koel	Eudynamys melanorhyncha	-	_			┷┼		<del>2</del>		1	1	_2
iery-billed Malkoha esser Coucal	Phaenicophaeus calyorhynchus	*			5	3		2	2		2	2 39
ay Coucai	Centropus bengalensis		2		1					<del>`  </del>	<del>                                     </del>	2
ulawesi Scops-Owl	Centropus celebensis	!	2	2   1	6	1 4	4 ;	2 .	4 4	4	2	-Ê-
rey-rumped Tree-Swift	Otus manadensis Hemiprocne longipennis	*							2		<del>1 1</del> 1	4
Vhite-bellied Swiftlet	Collocalia esculenta		10			<u> </u>	6					10
niform Swiftlet	Aerodramus vanikorensis			2 >5 4						6	1 1	2 ]
sian Palm-Swift	Cypsiurus balasiensis	11	<del> </del>	73 2						3_		>5
uddy Kingfisher	Haicyon coromanda				<u>-                                    </u>						4_4	
ollared Kingfisher ainbow Bee-eater	Halcyon chloris		2	- 4	<del>-  -</del>	1				1	1	1 4
ambow Bee-eater urple-winged Roller	Merops ornatus		3	2	4		4	_			++	>4
ulawesi Hombill	Coracias temminckii	*		market of the same					1	1	3	3
ed-knobbed Hornbill	Penelopides exarthatus Rhyticeros cassidix		1 6			I			1	2		6
shy Woodpecker	Mulleripicus fulvus		5	1				1	1	1	1 1	6
ed-bellied Pitta	Pitta erythrogaster		2 3	2	_ 1	1			2	1	3	3
icific Swallow	Hirundo tahitica			3					3	-	11	3
hite-rumped Cuckoo-Shrike	Coracina leucopygia		7		<del></del>	3		2		<del>- </del> -	<del>   -</del>	3
mmon Cicadabird	Coracina tenuirostris	77		3		1		4	1	1		4
llawesi Cicadabird Ilawesi Pied Triller	Coracina morio	*   2			<del></del>	<del>  `</del>	1		1	<del></del>	╀	2
ir-crested Drongo	Lalage [nigra] leucopygialis	*		1		1	<u> </u>				<del> </del>	1
ack-naped Oriole	Dicrurus hottentottus Oriolus chinensis	11				11	5				5	11
oing Crow	Corvus typicus	3			3	2		1	1	4	2	7
lawesi Babbier	Trichastoma celebense	* 3		4		2_	2_	2	2	2	2	4
d Bushchat	Saxicola caprata	+ 4	2	12	2_	5_	11		2	>15	2	>15
d-backed Thrush	Zoothera erythronota	<del>     </del>		2				<del></del>	<u> </u>	44		2
ck-naped Monarch	Hypothymis azurea puella	1		5	3	┼	3	4	2	+		4
ne riycatcher	Culicicapa helianthea	11	1	2	2	1	1 1	1	1 2	2 3	2	5 3
	Motacilia cinerea						1		† <b>-</b>	11	<del></del>	1
	Artamus leucorhynchus	Ц		4				İ	1	<del>†                                    </del>	4	4
	Artamus monachus Aplonis panayensis	*	<u>.                                    </u>	3					1			3
	Apionis panayensis Basilomis celebensis	* 2			<del> </del>	1	1			4		4
ite-necked Myna	Streptocitta albicollis	* 2 * 4	<del></del> -	3	+		<del> </del>	<del> </del>	<u> </u>			2
in-billed Myna	Scissirostrum dubium	+++	+	+3	2	>25	<del> </del>	<del> </del>	-	3		6
wn-throated Sunbird	Anthreptes malacensis	t i		4	17	1-23	<del> </del>	1	1	<b></b>		25
k Sunbird j	Vectarinia aspasia		1	1	2	<del>                                     </del>	1	1				4
e-backed Sunbird	Vectarinia jugularis	2		4	Ī		·	<u> </u>				2
	Nethopyga siparaja		4	2		T			1	1	1	
		*	1	6			3					
Y-Sided Flowerpecker :F	JC36UM calebious	Part i	2									
y-sided Flowerpecker Con-bellied White-Eye Z		**	<del> </del>	6	<u> </u>	2	5_			2	5 6	5

SQUARE	65	1		j	-	1				Ţ	1	1	-
DATE			10/6	10/7	22/7	02/9	08/9	20/9	26/9	14/10	06/11	11/11	Max
C11731 /F3/ F8/4 em						1				]	1		Coun
SURVEY TIME		<u> </u>	125m	120m	240m	120m	120m	180m	195m	135m	225m	90m	
COMMON NAME	SYSTEMATIC NAME					<u> </u>					<del>                                     </del>		<del></del>
Scaly-breasted Munia	Lonchura punctulata				2						<del> </del>		1-2
Chestnut Munia	Lonchura malacca				3								3
Small Sparrowhawk species	Accipiter nanus/rhodogaster	*						1			1		1
TOTAL SPECIES: 76													
SULAWESI ENDEMICS: 31													<del> </del>
NDONESIAN ENDEMICS: 5			<b></b>										<del> </del>
FOTAL TIME: 25h50m								<del></del>					<del> </del>
FEAMS: 8		-		<del></del> i									<del> </del>

POLITIES	: 000			<del></del>	-	1	<del></del>	· [·····		T :			:
SQUARE DATE	66	-	10/6	16/6	08/7	08/7	10/7	22/7	02/9	14/10	11/11	16/11	Max
1 to the state of	there were a province of the state of the st	1	1	1		1	1	† <del></del> -	1				Соцп
SURVEY TIME			233n	1205m	240m	12017	120m	130m	180m	240m	225m	105m	
					1	1	1						
COMMON NAME	SYSTEMATIC NAME		ļ	ļ		<del> </del>	<del> </del>	ļ	<u> </u>				
Little Egret Woolly-necked Stork	Egretta garzetta nigripes Ciconia episcopus		<del> </del>	<del> </del>	-	>20	<del> </del>	<del>                                     </del>	<del> </del>	1			>20
Osprey	Pandion haliaetus		<u> </u>	<del> </del>	<del> </del> -	<del> </del> -	<del> </del> -	<del> </del> -	1			<del></del>	1
Jerdon's Baza	Aviceda jerdoni	1	<del>i</del>	<u> </u>	<del> </del>	<del> </del>	1	<del> </del>	2				2
Barred Honey-Buzzard	Pernis celebensis			<del>-</del>		<del> </del>	İ	<del> </del>	1				1
Black-shouldered Kite	Elanus caeruleus						1						1
Brahminy Kite	Haliastur indus		1		1				1				1
Sulawesi Serpent-Eagle	Spilornis rufipectus			1_1_	1_		<del> </del>	<u> </u>	2	1	2		2
Sulawesi Goshawk	Accipiter griseiceps Accipiter trinotatus	*	ļ	<del> </del>	<u> </u>	ļ	ļ	1	<u> </u>	1			1_1_
Spot-tailed Goshawk Little Sparrowhawk	Accipiter trinotatus Accipiter nanus	*		1	<u> </u>	<del> </del>	<del> </del> -	1 1			1		1
Vinous-breasted Sparrowhawk	Accipiter rhodogaster	*	1	<del> </del>		<u> </u>	<del> </del>				i	++	1
Black Eagle	Ictinaetus malayensis					<del></del>	<del> </del>	1		<u> </u>			1
Sulawesi Hawk-Eagle	Spizaetus lanceolatus	*	1			<del> </del>	<del>                                     </del>	<del>                                     </del>			-		1
isabeliine Waterhen	Amauromis isabellinus	*									į	2	2
Oriental Pratincole	Glareola maldivarum										5		
Spotted Dove	Streptopelia chinensis			<u> </u>			ļ				3		
Stender-billed Cuckoc-Dove	Macropygia amboinensis		15		1	1	1		11	10	9		15
White-faced Cuckoo-Dove	Turacoena manadensis Chalcophana etechani	*	2	1	2		1_1_	1	6	6	3	4	- 6
Stephan's Pigeon Grey-cheeked Green Pigeon	Chalcophaps stephani Treron griseicauda	**					ļ		4	7	6		
Black-naped Fruit-Dove	Ptlinopus melanospila	$\dashv$	20	17	12			2	10	14	7	10	20
Green Imperial Pigeon	Ducula aenea	$\dashv$	6					-		•7			6
Pink-headed Imperial Pigeon	Ducula rosacea	**		12	2	5	2	>10	15	12	11	5	15
White Imperial Pigeon	Ducula luctuosa	*	9	6				2	5	11	12	1	-
Ornate Lorikeet	Trichoglossus ornatus	*	2	4		2		10		4	5		10
Sulawesi Hanging-Parrot	Loriculus stigmatus	*	6	2	2	6	2	6	6	14	6		
Green Hanging-Parrot	Loriculus exilis	*	4		4	6		2			2		6
Golden-mantled Racket-tailed Parrot Great-billed Parrot	Prioniturus platurus Tanygnathus megalorynchos		>10	10 2				2	7	7	3		>10 4
Biue-backed (Muller's) Parrot	Tanygnathus sumatranus			-4-							3		
Plaintive Cuckoo	Cacomantis merulinus	-						1		1 1	-		<del></del>
Dronge Cuckeo	Surniculus lugubris								3	2	1	11	3
Black-billed Koel	Eudynamys melanorhyncha	*	1						1	3	2		3
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	*	2	2	5	1		2	2	6	2		6
Lesser Coucai	Centropus bengalensis	_		1		3	1	1	4		1		4
Bay Coucai	Centropus celebensis	*	8	4	5	1		8	7	8	8	4	8
Sulawesi Scops-Owl Great-eared Nightjar	Otus manadensis Eurostopodus macrotis		3		3							2	3
Savanna Nightjar	Caprimulgus affinis	-		2			>3					1 1	>3
Grey-rumped Tree-Swift	Hemiprocne longipennis	-	12			2		>19	5	25	8	5	25
White-bellied Swiftlet	Collocalia esculenta	+	>30	25	>30	>40		5	5		15	4	>40
Voluccan Swiftlet	Aerodramus infuscatus			16			Ì						16
Uniform Swiftlet	Aerodramus vanikorensis		32	32	>15	3		>10	2	>35	16	70	70
Asian Palm-Swift	Cypsiurus balasiensis			12	1				8				12
Collared Kingfisher	Halcyon chloris		4	6	2	12	2	5		6	1	3	12
Rainbow Bee-eater Purple-winged Roller	Merops ornatus		4	2		12		8	11	2	3		12
Sulawesi Hornbill	Coracias temminckii Penelopides exarthatus	-	2	4				1		<del>Z</del> ;	3		2
Red-knobbed Hombill	Rhyticeros cassidix	-	4	2	2				6	2	1	1	6
Ashy Woodpecker	Mulleripicus fulvus	•	2	2	4			2	2		2	1	4
Red-bellied Pitta	Pitta erythrogaster									1	4	2	4
Pacific Swallow	Hirundo tahitica				ĺ						15		15
Pied Cuckoo-Shrike	Coracina bicolor					I			2				2
White-rumped Cuckoo-Shrike	Coracina leucopygia	*	3	6		1		4	6		2		6
Common Cicadabird	Coracina tenuirostris		1	5	1			1	4	3			5
			3	2	1				4	2	9		9
Sulawesi Cicadabird	Coracina morio								4		E i		4
oulawesi Pied Triller	Lalage [nigra] leucopygialis	++				A i				1			4
Sulawesi Pied Triller White-winged Triller	Lalage [nigra] leucopygialis Lalage sueurii	*	12	5	>26	4		7	2	12	8	- 11	4 >26
oulawesi Pied Triller	Lalage [nigra] leucopygialis Lalage sueurii Dicrurus hottentottus		12	5 2	>26 7	3		7 6	11	~	8		>26
Sulawesi Pied Triller White-winged Triller Hair-crested Drongo	Lalage [nigra] leucopygialis Lalage sueurii			5 2 2	**********		2	7 6		9	8 8		
Sulawesi Pied Triller White-winged Triller Hair-crested Drongo Black-naped Oriole Slender-billed Crow Piping Crow	Lalage [nigra] leucopygialis Lalage sueurii Dicrurus hottentottus Oriolus chinensis		8 1 3	2 3	7	3	2 2	6	11 11 2 2	9	8	2	>26 11 20 3
Sulawesi Pied Triller White-winged Triller Hair-crested Drongo Black-naped Oriole Slender-billed Crow Piping Crow Julawesi Babbler	Lalage [nigra] leucopygialis Lalage sueurii Dicrurus hottentottus Oriolus chinensis Corvus enca		8 1 3 12	2 2 3 20	7 3 >13	3		6 1 3 6	11 11 2 2 12	8	8 1 2 6	2	>26 11 20 3 20
Sulawesi Pied Triller  White-winged Triller  Hair-crested Drongo  Black-naped Oriole  Blender-billed Crow  Piping Crow  Sulawesi Babbler  Black-naped Monarch	Lalage [nigra] leucopygialis Lalage sueurii Dicrurus hottentottus Oriolus chinensis Corvus enca Corvus typicus Trichastoma celebense Hypothymis azurea puella	•	8 1 3 12 4	2 3 20 3	7 3 >13 2	3	2	6 1 3	11 11 2 2 12 8	8 5	8 1 2 6 4	2 2	>26 11 20 3 20 .8
Sulawesi Pied Triller  White-winged Triller  Hair-crested Drongo  Slack-naped Oriole  Slacher-billed Crow  Piping Crow  Sulawesi Babbler  Slack-naped Monarch  Ditrine Flycatcher	Lalage [nigra] leucopygialis Lalage sueurii Dicrurus hottentottus Oriolus chinensis Corvus enca Corvus typicus Trichastoma celebense Hypothymis azurea puella Culicicapa helianthea	•	8 1 3 12 4 4	2 2 3 20	7 3 >13	20	2 2 4	6 1 3 6 4	11 11 2 2 12 12 8 7	8 5 5	8 1 2 6 4 5	2	>26 11 20 3 20 .8 7
Sulawesi Pied Triller  White-winged Triller Hair-crested Drongo  Black-naped Oriole Slender-billed Crow  Piping Crow Sulawesi Babbler Black-naped Monarch  Sitrine Flycatcher  White-breasted Woodswallow	Lalage [nigra] leucopygialis Lalage sueurii Dicrurus hottentottus Oriolus chinensis Corvus enca Corvus typicus Trichastoma celebense Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus	THE REAL PROPERTY OF THE PROPE	8 1 3 12 4 4 10	2 3 20 3	7 3 >13 2	3	2 2 4	6 1 3 6 4	11 11 2 2 12 8 7 5	8 5 5 5	8 1 2 6 4 5	2 2	>26 11 20 3 20 .8 .7
Sulawesi Pied Triller White-winged Triller Hair-crested Drongo Black-naped Oriole Slender-billed Crow Piping Crow Sulawesi Babbler Black-naped Monarch Sitrine Flycatcher White-breasted Woodswallow vory-backed Woodswallow	Lalage [nigra] leucopygialis Lalage sueurii Dicrurus hottentottus Oriolus chinensis Corvus enca Corvus typicus Trichastoma celebense Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus Artamus monachus	•	8 1 3 12 4 4	2 3 20 3 1	7 3 >13 2 3	20	2 2 4	6 1 3 6 4	11 11 2 2 12 12 8 7	8 5 5 5	8 1 2 6 4 5 9 3	2 2	>26 11 20 3 20 8 7 10 6
Sulawesi Pied Triller White-winged Triller Hair-crested Drongo Slack-naped Oriole Slender-billed Crow Piping Crow Sulawesi Babbler Slack-naped Monarch Sitrine Flycatcher White-breasted Woodswallow Vory-backed Woodswallow Usian Glossy Starling	Lalage [nigra] leucopygialis Lalage sueurii Dicrurus hottentottus Oriolus chinensis Corvus enca Corvus typicus Trichastoma celebense Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus Artamus monachus Aplonis panayensis	THE REAL PROPERTY OF THE PROPE	8 1 3 12 4 4 4 10 6	2 3 20 3 1	7 3 >13 2 3	20	2 2 4	6 1 3 6 4 5 6	11 11 2 2 12 8 7 5	8 5 5 5 5 5 2	8 1 2 5 5 9 3 15	2 2	>26 11 20 3 20 .8 7 10 6
Sulawesi Pied Triller White-winged Triller lair-crested Drongo Slack-naped Oriole Slender-billed Crow Piping Crow Sulawesi Babbler Slack-naped Monarch Citrine Flycatcher White-breasted Woodswallow vory-backed Woodswallow Usian Glossy Starling Sulawesi Crested Myna	Lalage [nigra] leucopygialis Lalage sueurii Dicrurus hottentottus Oriolus chinensis Corvus enca Corvus typicus Trichastoma celebense Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus Artamus monachus Apionis panayensis Basilornis celebensis	TO PRINTED AND AND AND AND AND AND AND AND AND AN	8 1 3 12 4 4 4 10 6	2 2 3 20 3 1	7 3 >13 2 3 14 3	20	2 2 4	6 1 3 6 4 5 6	11 11 2 2 12 8 7 5 4	8 5 5 5 2 4	8 1 2 6 4 5 9 3	2 2	>26 11 20 3 20 .8 7 10 6 15 7
Sulawesi Pied Triller White-winged Triller Hair-crested Drongo Slack-naped Oriole Slender-billed Crow Piping Crow Sulawesi Babbler Slack-naped Monarch Sitrine Flycatcher White-breasted Woodswallow Vory-backed Woodswallow Usian Glossy Starling	Lalage [nigra] leucopygialis Lalage sueurii Dicrurus hottentottus Oriolus chinensis Corvus enca Corvus typicus Trichastoma celebense Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus Artamus monachus Aplonis panayensis	TO PARTITO DE VARIADO DE MANDA MANDE ANTONIO DE PARTITO DE MANDE ANTONIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMP	8 1 3 12 4 4 10 6	2 2 3 20 3 1	7 3 >13 2 3 14 3 5	20	2 2 4	6 1 3 6 4 5 6	11 11 2 2 12 8 7 5 4	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8 1 2 6 4 5 9 3 15 6	2	>26 11 20 3 20 .8 7 10 6
Sulawesi Pied Triller White-winged Triller Hair-crested Drongo Slack-naped Oriole Slack-naped Oriole Signing Crow Sulawesi Babbler Slack-naped Monarch Citrine Flycatcher White-breasted Woodswallow vory-backed Woodswallow Usian Glossy Starling Sulawesi Crested Myna White-necked Myna Inch-billed Myna Grown-throated Sunbird	Lalage [nigra] leucopygialis Lalage sueurii Dicrurus hottentottus Oriolus chinensis Corvus enca Corvus typicus Trichastoma celebense Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus Artamus monachus Aplonis panayensis Basilornis celebensis Streptocitta albicollis	TO PARTITO DE VARIADO DE MANDA MANDE ANTONIO DE PARTITO DE MANDE ANTONIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMP	8 1 3 12 4 4 4 10 6 2 4 4 25 8	2 2 3 20 3 1	7 3 >13 2 3 14 3	20	2 2 4	5 6 7 2 36	11 11 2 2 12 8 7 5 4 4 4 9	8 5 5 5 5 7 2 4 5 7 12 3 8	8 1 2 6 4 5 9 3 15 6 8 **17	2 2	>26 11 20 3 20 .8 7 10 6 15 7
Sulawesi Pied Triller White-winged Triller Hair-crested Drongo Slack-naped Oriole Slack-naped Oriole Signature Signature Slack-naped Monarch Ottrine Flycatcher White-breasted Woodswallow vory-backed Woodswallow usian Glossy Starling Sulawesi Crested Myna White-necked Myna White-necked Myna Strown-throated Sunbird Slack Sunbird	Lalage [nigra] leucopygialis Lalage sueurii Dicrurus hottentottus Oriolus chinensis Corvus enca Corvus enca Corvus typicus Trichastoma celebense Hypothymis azurea puella Culicicapa helianthea Artamus leucorhynchus Artamus monachus Aplonis panayensis Basilornis celebensis Streptocitta albicollis Scissirostrum dubium	TO PARTITO DE VARIADO DE MANDA MANDE ANTONIO DE PARTITO DE MANDE ANTONIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMP	8 1 3 12 4 4 4 10 6	2 2 3 20 3 1	7 3 >13 2 3 14 3 5 2	20	2 2 4	5 6 7 2 36	11 11 2 2 12 8 7 5 4 4 4 9	8 5 5 5 5 5 5 7 2 4 7 5 7 2 2 8 8 3	8 1 2 6 4 5 9 3 15 6 8	2	>26 11 20 3 20 .8 7 10 6 15 7 8 36

QUARE DATE	67		06/9	26/9	Max
URVEY TIME	aran da da da da da da da da da da da da da			$\prod$	Cour
OKAEL HME		<u>-</u> -	180n	210m	
COMMON NAME	SYSTEMATIC NAME			<del>  </del>	_
arred Honey-Buzzard	Pernis celebensis			1	1
rahminy Kite	Haliastur indus		2	2	2
ulawesi Serpent-Eagle	Spilornis rufipectus	ė	5		5
pot-tailed Goshawk	Accipiter trinotatus	*	1		1
ufouse-bellied Eagle potted Kestrel	Hieraaetus kienerii			1	1
potted Nestrei	Falco moluccensis Streptopelia chinensis	**	<del>- </del> -	2	2
ender-billed Cuckoo-Dove	Macropygia amboinensis		15	2	1 15
/hite-faced Cuckoo-Dove	Turacoena manadensis		1	2	2
rey-cheeked Green Pigeon	Treron griseicauda		<del></del>	3	3
ack-naped Fruit-Dove	Ptlinopus melanospila		2	5	5
'hite-bellied Imperial Pigeon	Ducula forsteni	*		1	1
nk-headed Imperial Pigeon	Ducula rosacea	**	1	4	4
hite Imperial Pigeon	Ducula luctuosa	*		2	2
nate Lorikeet eat-billed Parrot	Trichoglossus ornatus	*		2	2
aintive Cuckoo	Tanygnathus megalorynchos Cacomantis merulinus			2	2
ery-billed Malkoha	Phaenicophaeus calyorhynchus			3	3
sser Coucal	Centropus bengalensis		1 1	9	9
y Coucal	Centropus celebensis	*	6	6	6
ey-rumped Tree-Swift	Hemiprocne longipennis		9	3	9
hite-bellied Swiftlet	Collocalia esculenta		>15	3	>15
iform Swiftlet	Aerodramus vanikorensis		>15		>15
ian Palm-Swift	Cypsiurus balasiensis		1		1
llared Kingfisher	Halcyon chloris		5	6	6
inbow Bee-eater lawesi Hornbill	Merops ornatus			33	33
d-knobbed Hornbill	Penelopides exarthatus Rhyticeros cassidix		>3		>3
hy Woodpecker	Mulleripicus fulvus		1	23	23
nite-rumped Cuckoo-Shrike	Coracina leucopygia	-	2	1	<u>1</u> 4
ir-crested Drongo	Dicrurus hottentottus		2	5	5
ck-naped Oriole	Oriolus chinensis	_	8	6	8
ing Crow	Corvus typicus		3	2	3
awesi Babbler	Trichastoma celebense	*	7	23	23
d Bushchat	Saxicola caprata	į		9	9
den-bellied Gerygone ing Cisticola	Gerygone sulphurea			3	3
ck-naped Monarch	Cisticola juncidis			3	3
ine Flycatcher	Hypothymis azurea puella Culicicapa helianthea		1	5	5
ite-breasted Woodswallow	Artamus leucorhynchus		1	8	1 8
y-backed Woodswallow	Artamus monachus	9	1	19	19
ite-necked Myna	Streptocitta albicollis	-	6	9	9
ch-billed Myna	Scissirostrum dubium		>68	3	>68
wn-throated Sunbird	Anthreptes malacensis		1	5	5
⇒k Sunbird e-backed Sunbird	Nectarinia aspasia		1	8	8
nson Sunbird	Nectarinia jugularis	$\perp$	3	7	7
ow-sided Flowerpecker	Aethopyga siparaja		6	5	6
nson-crowned Flowerpecker	Dicaeum aureolimbatum Dicaeum nehrkorni			10	10
y-sided Flowerpecker	Dicaeum celebicum	*	6	11	1 11
on-bellied White-Eye	Zosterops chloris	-		15	15
-bellied White-Eye	Zosterops consobrinorum	-		13	13
k-faced Munia	Lonchura molucca	**	1	-	1
2					
onquail species	Turnix sp			2	2
AL SPECIES: 54	The state of the s				
AUSI ENDEMICS: 20		-			
ONESIAN ENDEMICS: 5				_ -	
AL TIME: 6h30m		++			
MS: 2		+-+			
		<u> </u>		1	

SQUARE	68		47/0	44.5	065	<del></del>
DATE			17/6	11/7	06/9	M₂ Cou
SURVEY TIME			120m	15m	240m	<u> </u>
SORVET THE			120111	10111	270111	<del></del>
COMMON NAME	SYSTEMATIC NAME		1		<b>†</b>	
Woolly-necked Stork	Ciconia episcopus				1	1
Osprey	Pandion haliaetus			2	1	2
Brahminy Kite	Haliastur indus			1	1	1
Lesser Fish-Eagle	ichthyophaga humilis				1	1
Sulawesi Serpent-Eagle	Spilornis rufipectus	<u> </u>	ļ		1	1
Small Sparrowhawk	Accipiter narius		ļ		1	1
Oriental Hobby	Falco severus			1		1 2
Red Junglefowl Snoring Rail	Gallus galius Gallirallus plateni		1		2	1
Common Sandpiper	Actitis hypoleucos				5	5
Slender-billed Cuckoo-Dove	Macropygia amboinensis				12	12
White-faced Cuckoo-Dove	Turacoena manadensis	-	<del> </del>		4	4
Stephan's Pigeon	Chalcophaps stephani		1	·-··		1
Pink-necked Green Pigeon	Treron vernans		1			1
Grey-cheeked Green Pigeon	Treron griseicauda	***	9		8	9
Black-naped Fruit-Dove	Ptlinopus melanospila				11	11
Pink-headed Imperial Pigeon	Ducula rosacea	**			3	3
White Imperial Pigeon	Ducula luctuosa	•			9	9
Sulawesi Hanging-Parrot	Loriculus stigmatus	*	2		10	10
Green Hanging-Parrot	Loriculus exilis				3	3
Great-billed Parrot	Tanygnathus megalorynchos	**			2	2
ndonesian Cuckoo	Cacomantis sepulcralis				1	
Orongo Cuckoo	Surniculus lugubris				1	
iery-billed Malkoha	Phaenicophaeus calyorhynchus		_2			2 2
esser Coucal Bay Coucal	Centropus bengalensis Centropus celebensis	-			2 4	4
Savanna Nightjar	Caprimulgus affinis	<u>-</u>		>2		
Grey-rumped Tree-Swift	Hemiprocne longipennis				>49	>4
White-bellied Swiftlet	Collocalia esculenta		>6		18	18
Voluccan Swiftiet	Aerodramus infuscatus				14	14
Great-billed Kingfisher	Haicyon melanorhyncha				2	2
Collared Kingfisher	Halcyon chloris		7		7	7
ommon Kingfisher	Alcedo atthis			2	1	2
Rainbow Bee-eater	Merops ornatus				2	2
Sulawesi Hombill	Penelopides exarthatus	*			2	2
Red-knobbed Hombill	Rhyticeros cassidix	*			7	7
Ashy Woodpecker	Mulleripicus fulvus				1	1_
Pacific Swallow	Hirundo tahitica		4		>10	>10
Vhite-rumped Cuckoo-Shrike	Coracina leucopygia		4		2	4
Common Cicadabird	Coracina tenuirostris	_			1	1 1
iulawesi Pied Triller Vhite-winged Triller	Lalage [nigra] leucopygialis				2	1
Vnite-winged I filler lair-crested Drongo	Lalage sueurii Dicrurus hottentottus				1 14	14
lack-naped Oriole	Oriolus chinensis				19	19
lender-billed Crow	Corvus enca		2		1	2
ulawesi Babbler	Trichastoma celebense				7+	+ 7
olden-bellied Gerygone	Gerygone sulphurea		2			1
lack-naped Monarch	Hypothymis azurea puella		5	<del>-</del>	6	6
itrine Flycatcher	Culicicapa helianthea				2	2
usty-bellied Fantail	Rhipidura teysmanni		1			1
Vhite-breasted Woodswallow	Artamus leucorhynchus				12	12
hort-tailed Glossy Starling	Aplonis minor		1			1
sian Glossy Starling	Aplonis panayensis		5		19	19
ulawesi Crested Myna	Basilornis celebensis				2	2
Vhite-necked Myna	Streptocitta albicollis	*			6	6
inch-billed Myna	Scissirostrum dubium				>6	>6
rown-throated Sunbird	Anthreptes malacensis	[]	1		3	3
lack Sunbird	Nectarinia aspasia				6	6
Nive-backed Sunbird	Nectarinia jugularis		5		7	7
rimson Sunbird ellow-sided Flowerpecker	Aethopyga siparaja				5	5
ellow-sided Flowerpecker	Dicaeum aureolimbatum Dicaeum celebicum		5		<del></del>	7
erron-bellied White-Eye	Zosterops chloris	P-4	2		7 2	2
ale-belifed White-Eye	Zosterops consobrinorum		-4		3	3
and wellight trimerate	Musico con aconnorum				J	+-3-
OTAL SPECIES: 64	\$		<del></del>			
ULAWESI ENDEMICS: 22	\$ 000 class company on \$100 class company on \$100 class company on the company of			+		<del></del>
IDONESIAN ENDEMICS: 4					-	<del> </del>
OTAL TIME: 6h15m	energentarian dan da 🖟 yayar 1900 tida 1801 tida 1801 tida 1801 tida 1901 tida 1801 tida 1901 tida 1801 t					
EAMS: 3		- 1 1	<del></del>			<del></del>

SQUARE	69			<u> </u>
DATE			25/9	Max
				Count
SURVEY TIME	a historiansensensensensensensensensensensensensen		90m	
				į
COMMON NAME	SYSTEMATIC NAME			
Sulawesi Serpent-Eagle	Spilornis rufipectus		1	1
Slender-billed Cuckoo-Dove	Macropygia amboinensis		2	2
White-faced Cuckoo-Dove	Turacoena manadensis		3	3
Stephan's Pigeon	Chalcophaps stephani		1	1 1
Black-naped Fruit-Dove	Ptlinopus melanospila		2	2
Pink-headed Imperial Pigeon	Ducula rosacea	**	6	6
White Imperial Pigeon	Ducula luctuosa		5	5
Yellow-crested Cockatoo	Cacatua sulphurea	++	1	11
Great-billed Parrot	Tanygnathus megalorynchos		6	6
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	*	1	1
Bay Coucal	Centropus celebensis	*	2	2
Grey-rumped Tree-Swift	Hemiprocne longipennis		1	1
White-bellied Swiftlet	Collocalia esculenta		7	7
Collared Kingfisher	Halcyon chloris		1	1
Common Kingfisher	Alcedo atthis		1	1
Red-knobbed Hombill	Rhyticeros cassidix	*	2	2
White-rumped Cuckoo-Shrike	Coracina leucopygia	*	4	4
Hair-crested Drongo	Dicrurus hottentottus		6	6
Black-naped Oriole	Oriolus chinensis		3	3
Black-naped Monarch	Hypothymis azurea puella		1	1
White-necked Myna	Streptocitta albicollis	*	3	3
Brown-throated Sunbird	Anthreptes malacensis		1	1
Black Sunbird	Nectarinia aspasia	1	2	2
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	*	2	2
Grey-sided Flowerpecker	Dicaeum celebicum	*	2	2
TOTAL SPECIES: 25				
SULAWESI ENDEMICS: 10	Mich Marinday day - edge- fide- graph copy - and A Sank and A special process of special process of the A Mich Mich Copy - Mic		. 1	
INDONESIAN ENDEMICS: 2	and the state of t			
TOTAL TIME: 1h30m			1	}
TEAMS: 1	paradominina de la companio del la companio del la companio del la companio del la companio d	1		

SQUARE	70	T	1		T	
DATE			07/8	18/8	07/9	Max
SURVEY TIME			240m	60m	90m	Count
COMMON NAME	SYSTEMATIC NAME					
Striated Heron	Butorides striatus		3		1	1
Osprey	Pandion haliaetus		1	1	1	1
Brahminy Kite	Haliastur indus		1			1
Grey-headed Fish-Eagle	Ichthyophaga ichthyaetus		1	1		1
Spotted Kestrel	Falco moluccensis	**	1	**************	1	1
Pacific Golden Plover	Pluvialis fulva			-m	5	5
Common Sandpiper	Actitis hypoleucos			************	1	1
Whimbrel	Numenius phaeopus			180.161.60	1	1 1
Spotted Dove	Streptopelia chinensis		2			2
White-faced Cuckoo-Dove	Turacoena manadensis	*			1	1
Grey-cheeked Green Pigeon	Treron griseicauda	**	1		1	1
Black-naped Fruit-Dove	Ptlinopus melanospila		2			
Sulawesi Hanging-Parrot	Loriculus stigmatus			****************	2	2 2
Black-billed Koel	Eudynamys melanorhyncha	*	1			1 1
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	*	1			1
esser Coucal	Centropus bengalensis		1 1			<u> </u>
Grey-rumped Tree-Swift	Hemiprocne longipennis		1			1
White-bellied Swiftlet	Collocalia esculenta		4			4
Uniform Swiftlet	Aerodramus vanikorensis		1		5	5
House Swift	Apus nipalensis		1	2	>25	>25
Great-billed Kingfisher	Halcyon melanorhyncha	*	1		1	1
Collared Kingfisher	Halcyon chloris		2		4	4
Purple-winged Roller	Coracias temminokii	**	1			1
Pacific Swallow	Hirundo tahitica	_	8		6	8
Black-naped Oriole	Oriolus chinensis		3			3
Slender-billed Crow	Corvus enca		7			<del>  7</del>
Sulawesi Babbler	Trichastoma celebense	*	2		1	+ i
Pied Bushchat	Saxicola caprata		4			4
White-breasted Woodswallow	Artamus leucorhynchus		13		10	10
Short-tailed Glossy Starling	Aplonis minor		19		-,0	19
Asian Glossy Starling	Aplonis panayensis		3			3
Brown-throated Sunbird	Anthreptes malacensis		3		2	3
Black Sunbird	Nectarinia aspasia				1	1
Dive-backed Sunbird	Nectarinia dispasia		4		6	6
Crimson Sunbird	Aethopyga siparaja				1	1
Grey-sided Flowerpecker	Dicaeum celebicum	*	1			11
emon-bellied White-Eye	Zosterops chloris	**	1			+
Pale-bellied White-Eye	Zosterops consobrinorum				5	5
The second secon	2.0sterops consopring an				_3_	
OTAL SPECIES: 38		_				
ULAWESI ENDEMICS: 8						
NDONESIAN ENDEMICS: 4						
OTAL TIME: 6h30m						
EAMS: 3						
	<u> </u>					

DATE	72		11/6	11/6	06/8	06/8	06/8	Max Coun
SURVEY TIME			190m	1 120m	200m	180m	20m	Coun
							ν,	
COMMON NAME Jerdon's Baza	SYSTEMATIC NAME							
Barred Honey-Buzzard	Aviceda jerdoni Pernis celebensis				<del> </del>		2	2
Brahminy Kite	Haliastur indus		2	<del> </del> -	1			1 2
Sulawesi Serpent Eagle	Spilornis rufipectus		2	+				2
Black Eagle	Ictinaetus malayensis	<u>-</u>	1		1	1		1
Sulawesi Hawk-Eagle	Spizaetus lanceolatus	•		1	<u> </u>			1
Red Junglefowl	Galius galius		1	2		1		2
White-breasted Waterhen	Amaurornis pheonicurus					1		1
Slender-billed Cuckoo-Dove	Macropygia amboiNEnsis				1	2		2
White-faced Cuckoo-Dove	Turacoena manadensis	*	1		4	2		4
Pink-necked Green Pigeon	Treron vernans					1		1
Black-naped Fruit-Dove	Ptlinopus melanospila			1	4			4
Green Imperial Pigeon Great-billed Parrot	Ducula aenea		2	ļ				2
Blue-backed (Muller's) Parrot	Tanygnathus megalorynchos		<u> </u>		1			1_1_
Plaintive Cuckoo	Tanygnathus sumatranus				1	4		4
Drongo Cuckoo	Cacomantis merulinus Surniculus lugubris		+		2	3		3
Black-billed Koel	Eudynamys melanorhyncha		1	1	2	3		3
Channel-billed Cuckoo	Scythrops novaehollandiae		2			<b>-</b>		1 2
iery-billed Malkoha	Phaenicophaeus calyorhynchus		2	3	4	3		14
Lesser Coucal	Centropus bengalensis		1		6	2		6
Bay Coucal	Centropus celebensis	*	5	9	8			9
Speckled Hawk-Owl	Ninox punctulata	•	1					1
Grey-rumped Tree-Swift	Hemiprocne longipennis	1	37	>30	7	5		37
White-bellied Swiftlet	Collocalia esculenta		>50	>30	15	24		>50
Jniform Swiftlet	Aerodramus vanikorensis		25		1	5	1	25
Asian Palm Swift	Cypsiurus balasiensis		30	5				30
Collared Kingfisher	Halcyon chloris		2	4	12	7		12
Blue-eared Kingfisher Rainbow Bee-eater	Alcedo meninting		2					2
Purple-winged Roller	Merops ornatus Coracias temminckii		<u> </u>		12	ļ		12
Sulawesi Hombill	Penelopides exarhatus			1	_ <b>_</b>			1
Red-knobbed Hornbill	Rhyticeros cassidix		3 10	3 2	5			4
Vhite-rumped Cuckoo-Shrike	Coracina leucopygia		10	4	3	1		10
Sulawesi Pied Triller	Lalage [nigra] leucopygialis		<del> </del>	7	<u> </u>	3		3
lair-crested Drongo	Dicrurus hottentottus		6	3	6	4		6
llack-naped Oriole	Oriolus chinensis		4	4	14	9		14
lender-billed Crow	Corvus enca		1		1			1
iping Crow	Corvus typicus	*	4	2		1		4
ulawesi Babbler	Trichastoma celebense	•	10	3	>20	20		>20
ied Bushchat	Saxicola caprata				4			4
lack-naped Monarch	Hypothymis azurea puella		3 ]	7	2	1		7
itrine Flycatcher	Cuclicicapa helianthea		2					2
/hite-breasted Woodswallow	Artamus leucorhynchus	ļ			7	4		7
hort-tailed Glossy Starling sian Glossy Starling	Aplonis minor				2			2
ulawesi Crested Myna	Aplonis panayensis					2		2
/hite-necked Myna	Basilornis celebensis	[	2					2
nch-billed Myna	Streptocitta albicollis Scissirostrum dubium		4	1	4			4
rown-throated Sunbird	Anthreptes malacensis		3		>50	2		>50
ack Sunbird	Nectarinia aspasia		-3 2	6		3		6
live-backed Sunbird	Nectarinia jugularis					8		11
rimson Sunbird	Aethopyga siparaja		4	3		1		4
ellow-sided Flowerpecker	Dicaeum aureolimbatum		5			<del>i  </del>		5
rey-sided Flowerpecker	Dicaeum celebicum	-	5	5		4		5
mon-bellied White-Eye	Zosterops chloris	**				1	-++	24
ile-beilied White-Eye	Zosterops consobrinorum	•		13		6		13
ack-faced Munia	Lonchura molucca		2	1				2
aly-breasted Munia	Lonchura punctulata					5		6
OTAL SPECIES: 59								
JLAWESI ENDEMICS: 19				_			_	
DONESIAN ENDEMICS: 1	The second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the sectio							
OTAL TIME: 11h50m								
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SQUARE	73		T	1
DATE			06/8	Max
				Count
SURVEY TIME			120m	
· And a street with a street w				
COMMON NAME	SYSTEMATIC NAME			T
Snoring Rail	Aramidopsis plateni	*	1	1
Slender-billed Cuckoo-Dove	Macropygia amboinensis		1	1
Lesser Coucal	Centropus bengalensis		1	1
Grey-rumped Tree-Swift	Hemiprocne longipennis		2	2
White-bellied Swiftlet	Collocalia esculenta		50	50
Black-naped Oriole	Oriolus chinensis		1	1
Piping Crow	Corvus typicus	*	2	2
Pied Bushchat	Saxicola caprata		1	1
White-breasted Woodswallow	Artamus leucorhynchus		4	4
Asian Glossy Starling	Aplonis panayensis		2	2
Finch-billed Myna	Scissirostrum dubium		15	15
Brown-throated Sunbird	Anthreptes malacensis		2	2
Black Sunbird	Nectarinia aspasia		1	1
Olive-backed Sunbird	Nectarinia jugularis		. 1	1
Crimson Sunbird	Aethopyga siparaja	1	.1	1
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	*	.1	1
Grey-sided Flowerpecker	Dicaeum celebicum	*	-1	1
Lemon-bellied White-Eye	Zosterops chloris	**	1	1
				T
TOTAL SPECIES: 18				1
SULAWESI ENDEMICS: 4	200 - 100 -			1
NDONESIAN ENDEMICS: 1				<del></del>
TOTAL TIME: 2h				
TEAMS: 1	The state of the s			

SQUARE DATE SURVEY TIME COMMON NAME	74		05/09	23/9	24/9	04/11	05/11	4.004.4	4 714 4	
SURVEY TIME  COMMON NAME		<del> </del>	00/08	200				17/7/17	17//17:	Max
COMMON NAME			l	<u> </u>		0-411	W11	10/11	17711	Count
COMMON NAME			90m	135m	135m	90m	150m	120m	120m	1
			<b>QQ.17</b>		140,11	-		· · ·		1
	SYSTEMATIC NAME		1							
	Phalacrocorax sulcirostris		>8							>8
Little Black Cormorant	Phalacrocorax melanoleucos						1		>60	>60
Little Pied Cormorant Great-billed Heron	Ardea sumatrana		}	<u> </u>	3		2			3
	Egretta alba		-		<u> </u>		24		<del>  -</del>	24
Great Egret	Egretta garzetta nigripes				190		172			190
Little Egret Pacific Reef-Egret	Egretta sacra		<del>                                     </del>		,,,,,		1			1 1
Striated Heron	Butorides striatus		<del> </del>	1	6	1	7			7
Milky Stork	Mycteria cinerea			•		1			5	5
Woolly-necked Stork	Ciconia episcopus		<b></b>		2		4			4
Osprey Osprey	Pandion haliaetus		<b> </b>		2	1				2
Brahminy Kite	Haliastur indus		1							1
White-bellied Sea-Eagle	Haliaeetus leucogaster		<u> </u>	2				2		2
Spot-tailed Goshawk	Accipiter trinotatus	*		1						1
Sulawesi Hawk-Eagle	Spizaetus lanceolatus	*		1						1
Snoring Rail	Aramidopsis plateni	*							1	1
Isabelline Waterhen	Amaurornis isabellinus	*				2				2
Common Redshank	Tringa totanus	1	<b> </b>		>40		3			>40
Nordmann's Greenshank	Tringa guttifer						1			1
Grey-tailed Tattler	Heteroscelus brevipes					2	7			7
Common Sandpiper	Actitis hypoleucos			4	4	1	3			4
Whimbrel	Numenius phaeopus			5	28	1	7			28
White-winged Tem	Chlidonias leucopterus				1					1
Lesser Crested Tern	Sterna bengalensis				2					2
Feral Pigeon	Columba livia						>8			>8
Spotted Dove	Streptopelia chinensis				1					1
Slender-billed Cuckoo-Dove	Macropygia amboinensis			2						2
White-faced Cuckoo-Dove	Turacoena manadensis	•		2						2
Green-winged Pigeon	Chalcophaps indica			2	1					2
Stephan's Pigeon	Chalcophaps stephani							1		<u> </u>
Grey-cheeked Green Pigeon	Treron griseicauda	**		>39				>15	2	>39
Black-naped Fruit-Dove	Ptlinopus melanospila				1			1		1 1
Pink-headed Imperial Pigeon	Ducula rosacea	##		4				9		9
White Imperial Pigeon	Ducula luctuosa	Ť	1	5				2		5
Yellow-crested Cockatoo	Cacatua sulphurea	**		2				_5	ļļ	5
Ornate Lorikeet	Trichoglossus ornatus	*		11						11
Sulawesi Hanging-Parrot	Loriculus stigmatus	*			1					1
Green Hanging Parrot	Loriculus exilis	*		1						1
Great-billed Parrot	Tanygnathus megalorynchos			4				5		7
Blue-backed (Muller's) Parrot	Tanygnathus sumatranus			8				-a		8
Plaintive Cuckoo	Cacomantis merulinus			11						1 1
Channel-billed Cuckoo	Scythrops novaehollandiae									1
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	*		7	1		>9			<u>&gt;9</u>
Lesser Coucal	Centropus bengalensis		1	2	11			2	2	2
Bay Coucal	Centropus celebensis	*		1				_1_		1 1
Sulawesi Scops-Owl	Otus manadensis			1					5	5
Grey-rumped Tree-Swift	Hemiprocne longipennis						- 10		3	13
White-bellied Swiftlet	Collocalia esculenta		13		1		>10		<del></del>	12
Asian Palm Swift	Cypsiurus balasiensis	*	12					<del></del>	<del>  -</del>	1
Great-billed Kingfisher	Halcyon melanorhyncha							1	3	5
Collared Kingfisher	Halcyon chloris		5	4	5 1	2	3			3
Common Kingfisher	Alcedo atthis	-			1			2	<del>  -</del>	2
Purple-winged Roller	Coracias temminokii		1					1		1 1
Broad-billed Roller (Dollarbird)	Eurystomus orientalis		1	1						1
Ashy Woodpecker	Mulleripicus fulvus	-								<del>                                     </del>
Red-bellied Pitta	Pitta erythrogaster		2		8					8
Pacific Swallow	Hirundo tahitica	*	3	6	6	1	3	4	5	6
White-rumped Cuckoo-Shrike Sulawesi Cicadabird	Coracina leucopygia Coracina morio	*	<u> </u>	<del></del>	<u> </u>			2		2
Sulawesi Cicadabiro Sulawesi Pied Triller	Lalage [nigra] leucopygialis	*	1	1	1			1	2	2
White-winged Triller	Lalage sueurii		-	1				•	<del></del>	1
VVnite-winged Thiler Hair-crested Drongo	Dicrurus hottentottus	_		2				2	<del></del>	2
Black-naped Oriole	Oriolus chinensis		1	4	1		3	2	-	4
	Corvus enca		1		2	<del></del>	2	2	<del></del>	2
Slender-billed Crow				:	7		- }		1	

,										
SQUARE	74				1					
DATE		1	05/09	23/9	24/9	04/11	05/11	16/11	17/11	Max
			†				1			Coun
SURVEY TIME			90m	135m	135m	90m	150m	120m	120m	1001
			1					, ,		
COMMON NAME	SYSTEMATIC NAME								lt	
Sulawesi Babbler	Trichastoma celebense	*	1	2	7	2	5	2	1	7
Pied Bushchat	Saxicola caprata		2					2	1	2
3olden-beilied Gerygone	Gerygone sulphurea		1	1						1 7
3lack-naped Monarch	Hypothymis azurea puella	1	5		1	1	3			5
Vhite-breasted Woodswallow	Artamus leucorhynchus		10	4	14	```	2	4	18	18
\sian Glossy Starling	Aplonis panayensis		6				>6	2		>6
Vhite-necked Myna	Streptocitta albicollis	*	1	3	2	3		2		3
inch-billed Myna	Scissirostrum dubium	-	1	8						8
rown-throated Sunbird	Anthreptes malacensis	· · · · · ·	5	5	4	2	2		2	5
llack Sunbird	Nectarinia aspasia		2	1			1	1	2	2
Nive-backed Sunbird	Nectarinia jugularis		7	3	6	1	1	5	7	7
rimson Sunbird	Aethopyga siparaja	j	1				1			1
ellow-sided Flowerpecker	Dicaeum aureolimbatum	*	6			.			3	6
irey-sided Flowerpecker	Dicaeum celebicum	*	4	3	5	2	2	2	3	5
emon-bellied White-Eye	Zosterops chloris	**	Ţ	1	2			5	14	14
ale-bellied White-Eye	Zosterops consobrinorum	*	3					3	3	3
ern species			>20			······································				>20
	2	j								-20
OTAL SPECIES: 80			1						<del></del>	<del> </del>
ULAWESI ENDEMICS: 25										<del> </del>
IDONESIAN ENDEMICS: 4										<del> </del>
OTAL TIME: 14h										+
EAMS: 4				<del></del>	<del></del>					+

COLLEGE			1		1	1 7
SQUARE	75		07/8	00.60	09/9	Ma
DATE	7 - 1971 - 1981		0110	U0/0	ua/a	Cou
SURVEY TIME	The state of the s	<u>-</u>	120m	2100	345m	
SOLACILIME	Company of the compan		120111	210111	34311	1
COMMON NAME	SYSTEMATIC NAME		<del> </del>		1	<del>  </del>
Striated Heron	Butorides striatus	<u>-</u>	İ	1	1	1
Woolly-necked Stork	Ciconia episcopus		<u> </u>	1	1	1
Sulawesi Serpent-Eagle	Spilornis rufipectus		1	<u> </u>	1 1	
Spot-tailed Goshawk	Accipiter trinotatus				╁╁╴	
Black Eagle	Ictinaetus malayensis		<del> </del>		1 1	1
Sulawesi Hawk-Eagle	Spizaetus lanceolatus		<del> </del>	1	<del> </del> -	1
Peregrine Falcon	Falco peregrinus				1	1
Red Junglefowl	Gallus gallus		<u> </u>		3	3
Slender-billed Cuckoo-Dove	Macropygia amboinensis				4	4
White-faced Cuckoo-Dove	Turacoena manadensis	<del> </del>	3	2	4	4
Grey-cheeked Green Pigeon	Treron griseicauda	**		9	6	9
Black-naped Fruit-Dove	Ptlinopus melanospila		1	3	21	21
Green Imperial Pigeon	Ducula aenea		•	1		1
Pink-headed Imperial Pigeon	Ducula rosacea	**		3	18	18
Pied Imperial Pigeon	Ducula bicolor			5	-10	5
White Imperial Pigeon	Ducula luctuosa		7	11	2	11
Ornate Lorikeet	Trichoglossus ornatus	*		27	25	27
Sulawesi Hanging-Parrot	Loriculus stigmatus	*		10	>27	>2
Green Hanging-Parrot	Loriculus exilis	<u>-</u>	2	7	4	7
Great-billed Parrot	Tanygnathus megalorynchos			3	2	3
Drongo Cuckoo	Surniculus lugubris			1		1
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus			2	>7	<del></del>
Bay Coucal	Centropus celebensis	<u> </u>	3	6	8	8
Great-eared Nightjar	Eurostopodus macrotis			1		1 1
Grey-rumped Tree-Swift	Hemiprocne longipennis		6	12	39	39
White-bellied Swiftlet	Collocalia esculenta		10	10	>100	>10
Uniform Swiftlet	Aerodramus vanikorensis		30	15	106	106
Asian Palm-Swift	Cypsiurus balasiensis		$-\omega$	10	2	2
Collared Kingfisher	Halycon chloris		1	4	5	5
Common Kingfisher	Alcedo atthis			2	1	2
Rainbow Bee-eater	Merops ornatus				16	16
Red-knobbed Hombill	Rhyticeros cassidix			1	8	8
Ashy Woodpecker	Mulleripicus fulvus		1	1	4	4
Pacific Swallow	Hirundo tahitica				>24	>2
White-rumped Cuckoo-Shrike	Coracina leucopygia	-	6	6	3	6
Common Cicadabird	Coracina tenuirostris				5	5
Sulawesi Cicadabird	Coracina terruirostris			3	3	3
Hair-crested Drongo	Dicrurus hottentottus		2	8	6	8
Black-naped Oriole	erekennen an fra manna manna an anarar varan erakeren samun samun erakeren Albeiter (Albeiter Matter bet in Mit		2	11	15	15
Piping Crow	Oriolus chinensis Corvus typicus		1	5	3	5
Sulawesi Babbler	Trichastoma celebense		1	5	6	6
Solden-bellied Gerygone	Gerygone sulphurea			1		1
Black-naped Monarch	Hypothymis azurea puella			8	9	9
Citrine Flycatcher	Culicicapa helianthea				11	11
Grey Wagtail	Motacilla cinerea				1	1
White-breasted Woodswallow	Artamus leucorhynchus		2	4	5	5
Asian Glossy Starling	Aplonis panayensis			7	16	16
Sulawesi Crested Myna	Basilornis celebensis				2	2
White-necked Myna	Streptocitta albicollis		9	8	9	9
Finch-billed Myna	Scissirostrum dubium		3-		35	35
Prown-throated Sunbird	Anthreptes malacensis			13	<del></del>	13
Black Sunbird	restriction to the first specific and the contract of the first state of the contract of the c			10	8	10
Dlive-backed Sunbird	Nectarinia aspasia					
Dilve-packed Sundird Primson Sundird	Nectarinia jugularis			3	8 2	8 2
	Aethopyga siparaja				-2-+	
'ellow-sided Flowerpecker Grey-sided Flowerpecker	Dicaeum aureolimbatum Dicaeum celebicum			5	2 5	5
ernon-bellied White-Eye	Zosterops chloris		2	7	8	5 8
Pale-bellied White-Eye	Zosterops consobrinorum				>15	>15
OTAL SPECIES ED						
OTAL SPECIES: 58 SULAWESI ENDEMICS: 21		<del>-  </del> -			1	<del></del>
NDONESIAN ENDEMICS: 3						
OTAL TIME: 11h15m						<del></del>
EAMS: 2	** 1 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1					
				ŧ		

SQUARE DATE	76		000	12/11	12/11	12/11	Max
DATE	The state of the s						Count
SURVEY TIME			150m	180m	60m	275m	
	The state of the s	_	ļ	malarma valorraba estictiva		-	_
COMMON NAME	SYSTEMATIC NAME Ardea sumatrana		1 1	mensels reducible (Me-Ple	1	<u> </u>	1
Great-billed Heron Striated Heron	Butorides striatus		4	ala mara a demokrat del 1 Sa	8	1	8
Brahminy Kite	Haliastur indus	1	4		1		4
White-bellied Sea-Eagle	Haliaeetus leucogaster		1		***************************************		
Lesser Fish-Eagle	lchthyophaga humilis		ļ	1		1 1	1
Sulawesi Serpent-Eagle	Spilornis rufipectus		<u> </u>	1	1	2	2 3
Black Eagle	Ictinaetus malayensis		3			1	1
Red Junglefowl Barred Rail	Gallus gallus Gallirallus torquatus		4			╁╌┼	
White-breasted Waterhen	Amauromis pheonicurus	1	<u> </u>	2		2	2
Common Redshank	Tringa totanus	1	2	toroter ranktine be-196	6		4 2 6 6 3 7
Grey-tailed Tattler	Heteroscelus brevipes				6		6
Common Sandpiper	Actitis hypoleucos	_	1_1_	1	3	<u> </u>	3
Whimbrel	Numenius phaeopus		1		7	<u> </u>	
Black-naped Tern	Sterna sumatrana		<u> </u>		1 8	<del> </del>	1 8
Great Crested Tern	Sterna bergii		2		Ö		2
Spotted Dove Slender-billed Cuckoo-Dove	Streptopelia chinensis  Macropygia amboinensis		<del>  _</del> _	4		3	4
White-faced Cuckoo-Dove	Turacoena manadensis		8	5		1 1	8
Green-winged Pigeon	Chalcophaps indica		-	1			1
Stephan's Pigeon	Chalcophaps stephani		3		and Historichies (berichies)		3
Grey-cheeked Green Pigeon	Treron griseicauda	**	>52			18	>52
Black-naped Fruit-Dove	Ptlinopus melanospila	4	>51	9		17	>51
Pink-headed Imperial Pigeon	Ducula rosacea	**	ļ	8	2	2	8 3
White Imperial Pigeon	Ducula luctuosa			6		3 5	6
Yellow-crested Cockatoo Ornate Lorikeet	Cacatua sulphurea Trichoglossus ornatus		2		2	6	6
Sulawesi Hanging-Parrot	Loriculus stigmatus	-  -	10		1	3	10
Green Hanging-Parrot	Loriculus exilis	*	<u> </u>			11	1
Golden-mantled Racket-tailed Parrot	Prioniturur platurus	*				2	2
Plaintive Cuckoo	Cacomantis merulinus		1	***************************************	.,	1	1
Drongo Cuckoo	Surniculus lugubris		1	2	1	1 1	2
Black-billed Koel	Eudynamys melanorhyncha		1_1_	1	***************************************	1	1 2
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	- <b>-</b>	3	_2 _4	1	1 4	4
Lesser Coucal	Centropus bengalensis Centropus celebensis	+	ļ	4		3	4
Bay Coucal Grey-rumped Tree-Swift	Hemiprocne longipennis		43			<u>×</u>  -	43
White-bellied Swiftlet	Collocalia esculenta		>161	>185		25	>185
Uniform Swiftlet	Aerodramus vanikorensis	1-	>42	>33	5		>42
Asian Palm-Swift	Cypsiurus balasiensis			3	,,,		3 7
Collared Kingfisher	Halcyon chloris	_	7	3	2	1 1	
Sulawesi Pygmy Kingfisher	Ceyx fallax	*	1			1	1
Common Kingfisher	Alcedo atthis		1	2		<u> </u>	2
Rainbow Bee-eater	Merops ornatus	<u> </u>	12			5	12
Red-knobbed Hornbill	Rhyticeros cassidix	Ļ	7 2	6		8 5	5 5
Ashy Woodpecker	Mulleripicus fulvus					2	2
Red-bellied Pitta Pacific Swallow	Pitta erythrogaster Hirundo tahitica		7		2	+	7
White-rumped Cuckoo-Shrike	Coracina leucopygia	+	6		2	4	6
Common Cicadabird	Coracina tenuirostris	1	2		==	<u>                                     </u>	2
Sulawesi Cicadabird	Coracina morio	*	2	4		5	5
White-winged Triller	Laiage suerii		<u> </u>		2	ļļ.	8 5 2 7 6 2 5 2 8 9 2 2 2 2
Hair-crested Drongo	Dicrurus hottentottus	_	<u> </u>	8	1	<b>├</b>	8
Black-naped Oriole	Oriolus chinensis		8	6	1 2	9	+ 9
Slender-billed Crow	Corvus enca		2		1	1	+
Piping Crow Sulawesi Babbler	Corvus typicus Trichastoma celebense		<u> </u>	12	2	7	12
Sulawesi Babbier Pied Bushchat	Saxicola caprata		1	- 1 4-		╁╌┼	1
Golden-bellied Gerygone	Gerygone sulphurea		<del></del>		3	†	3
Black-naped Monarch	Hypothymis azurea puella	1	1	1	1	2	2
Yellow Wagtail	Motacilla flava			1		2	3 2 2 6
White-breasted Woodswallow	Artamus leucorhynchus		6	3	6		6
ivory-backed Woodswallow	Artamus monarchus		2			2	2
Asian Glossy Starling	Aplonis panayensis	1	6			3	6

SQUARE	76		1			<u> </u>	
DATE			09/9	12/11	12/11	12/11	Max
			<u> </u>			<u> </u>	Count
SURVEY TIME			150m	180m	60m	275m	
The second secon			1				
COMMON NAME	SYSTEMATIC NAME		<u> </u>			<u> </u>	ļ
Sulawesi Crested Myna	Basilomis celebensis	*	4	3		2	4
White-necked Myna	Streptocitta albicollis	*	6	10		5	10
Finch-billed Myna	Scissirostrum dubium		7			4	7
Brown-throated Sunbird	Anthreptes malacensis		4		2	2	4
Black Sunbird	Nectarinia aspasia		6	2		1	6
Olive-backed Sunbird	Nectarinia jugularis		8	5	3	8	8
Crimson Sunbird	Aethopyga siparaja		2	4		1	4
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	<u> </u>	11_	6		9	11
Grey-sided Flowerpecker	Dicaeum celebicum	*	11	14		6	14
Lemon-bellied White-Eye	Zosterops chloris	**	6	2	2	3	6
Pale-bellied White-Eye	Zosterops consobrinorum	*	8	3		7	7
Black-faced Munia	Lonchura molucca		14				14
Sparrowhawk species	Accipiter sp	-				1	1
TOTAL SPECIES: 77							<u> </u>
SULAWESI ENDEMICS: 24			1			ļ <u>.</u>	
INDONESIAN ENDEMICS: 5		-	1				
TOTAL TIME: 11h05m						<u> </u>	
TEAMS: 2							

SQUARE DATE	78		05/11	Max
Consideration and the Constant of the Constant	THE REAL PROPERTY OF THE PROPE		1	Coun
SURVEY TIME	The control of the co		120m	
CONTRACTOR AND A TOTAL CONTRACTOR AND AND AND AND AND AND AND AND AND AND	ama kimama maraparapa tapa garapa sara yarabar merandara dan maran sara maran sara maran maran maran maran maran maran maran maran maran dan dan maran dan maran dan maran maran maran dan		1	
COMMON NAME	SYSTEMATIC NAME		1	
Little Egret	Egretta garzetta nigripes		13	13
Striated Heron	Butorides striatus		4	4
Woolly-necked Stork	Ciconia episcopus	and the same of th	2	2
Milky Stork	Mycteria cinerea		21	21
Brahminy Kite	Haliastur indus		1	1
White-bellied Sea-Eagle	Haliaeetus leucogaster		1	1
Whimbrel	Numenius phaeopus		19	19
Spotted Dove	Streptopelia chinensis		1	1
Grey-cheeked Green Pigeon	Treron griseicauda	**	1	1
Black-naped Fruit-Dove	Ptlinopus melanospila		3	3
Pink-headed Imperial Pigeon	Ducula rosacea	**	1	1
Sulawesi Hanging-Parrot	Loriculus stigmatus	*	1	1
Oriental Cuckoo	Cuculus saturatus		1	1
Plaintive Cuckoo	Cacomantis merulinus		1	1
Fierv-billed Malkoha	Phaenicophaeus calyorhynchus	*	5	5
esser Coucal	Centropus bengalensis		7	7
Bay Coucal	Centropus celebensis	#	2	2
White-bellied Swiftlet	Collocalia esculenta		5	5
Uniform Swiftlet	Aerodramus vanikorensis		4	4
Collared Kingfisher	Halcyon chloris		5	5
Pacific Swallow	Hirundo tahitica		1	1
White-rumped Cuckoo-Shrike	Coracina leucopygia	*	6	6
Black-naped Oriole	Oriolus chinensis		2	2
Slender-billed Crow	Corvus enca		3	3
Sulawesi Babbler	Trichastoma celebense	*	14	14
Pied Bushchat	Saxicola caprata		4	4
Golden-bellied Gerygone	Gerygone sulphurea		2	2
Black-naped Monarch	Hypothymis azurea puella		2	2
White-breasted Woodswallow	Artamus leucorhynchus		9	9
White-necked Myna	Streptocitta albicollis	*	3	3
Brown-throated Sunbird	Anthreptes malacensis	-	6	6
Black Sunbird	Nectarinia aspasia		1	1
Olive-backed Sunbird	Nectarinia jugularis		2	2
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	in the	1	1_
Pale-bellied White-Eye	Zosterops consobrinorum	*	>4	>4
TOTAL SPECIES: 35				
SULAWESI ENDEMICS: 8				İ
NDONESIAN ENDEMICS: 2	1			
TOTAL TIME: 2h				
TEAMS: 1				1

SQUARE	79	1	1	T T	1
DATE			(18/0	12/11	Max
To E. T. S. Special section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second sec				1411	Count
SURVEY TIME	ama apamaharapa ama ama jaba abar abar labi sahar Abar abar abar labi sahar abar labi sahar abar abar labi sahar abar labi sahar abar labi sahar abar labi sahar labi		120m	80m	
With the Wisser I   1   2   2   Class	rags specings (mp. specings) and a second control of the second co				
COMMON NAME	SYSTEMATIC NAME				tion bereiks to be de little velored
Black Eagle	lctinaetus malayensis			1	1
Barred Rail	Gallirallus torquatus		1		1
Spotted Dove	Streptopelia chinensis		1		1
Slender-billed Cuckoo-Dove	Macropygia amboinensis		2		2
Stephan's Pigeon	Chalcophaps stephani		1		1
Grey-cheeked Green Pigeon	Treron griseicauda		<u> </u>	2	2
Black-naped Fruit-Dove	Ptlinopus melanospila		17	3	17
Pink-headed Imperial Pigeon	Ducula rosacea	**	5		5
White Imperial Pigeon	Ducula luctuosa		1		1
Yellow-crested Cockatoo	Cacatua sulphurea	**	2		2
Ornate Lorikeet	Trichoglossus ornatus	*	14	2	14
Sulawesi Hanging-Parrot	Loriculus stigmatus		2	2	2
Green Hanging-Parrot	Loriculus exilis	*	- <b>-</b> -	1	1
Great-billed Parrot	Tanygnathus megalorynchos		5	2	5
Blue-backed (Muller's) Parrot	Tanygnathus sumatranus		<u> </u>	3	3
Drongo Cuckoo	Sumiculus lugubris		1		1
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus	*		1	1
Lesser Coucal	Centropus bengalensis		2	1	2
Bay Coucal	Centropus celebensis	*	4	'	4
Grey-rumped Tree-Swift	Hemiprocne longipennis		2	7	<del> </del>
White-bellied Swiftlet	Collocalia esculenta		5		5
Collared Kingfisher	Halcyon chloris		7	3	7
Rainbow Bee-eater	Merops ornatus		>18		>18
Ashy Woodpecker	Mulleripicus fulvus		2		2
Pacific Swallow	Hirundo tahitica		7	6	7
White-rumped Cuckoo-Shrike	Coracina leucopygia	*	8	2	8
Common Cicadabird	Coracina leucopygia  Coracina tenuirostris		1		1
Sulawesi Cicadabird	Coracina tendrostris  Coracina morio		1		1
Sulawesi Cicadabii d Sulawesi Pied Triller		±	2		2
Hair-crested Drongo	Lalage [nigra] leucopygialis Dicrurus hottentottus		9		9
Black-naped Oriole	Oriolus chinensis		15	2	15
Slender-billed Crow	Corvus enca		2		2
Piping Crow	Corvus typicus		4		4
Sulawesi Babbler	Trichastoma celebense				11
Pied Bushchat	Saxicola caprata		11	<del>  </del> -	2
Solden-bellied Gerygone	Gerygone sulphurea			2	3
Black-naped Monarch				3  -	4
White-breasted Woodswallow	Hypothymis azurea puella Artamus leucorhynchus		4 5	5	5
vory-backed Woodswallow	Artamus monachus		_3_+	3	3
	representation of the first of		13		
Asian Glossy Starling	Aplonis panayensis				13
Sulawesi Crested Myna	Basilornis celebensis Streptocitta albicollis		4		4
White-necked Myna			6	3	6
Finch-billed Myna	Scissirostrum dubium		2		2
Brown-throated Sunbird	Anthreptes malacensis			2	
Black Sunbird	Nectarinia aspasia		12	1	12
Dive-backed Sunbird	Nectarinia jugularis		11	8	11
Crimson Sunbird	Aethopyga siparaja		1		1 -
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	-,-	9 15	3 5	9 15
Grey-sided Flowerpecker emon-bellied White-Eye	Dicaeum celebicum	**			
	Zosterops chloris		11	5	
Pale-bellied White-Eye	Zosterops consobrinorum		<u>&gt;7</u>	3	27
llack-faced Munia	Lonchura molucca		2		_2_
OTAL COFOLEO. FO			<u>-</u>		
OTAL SPECIES: 52			<u>-</u>		
ULAWESI ENDEMICS: 18					
NDONESIAN ENDEMICS: 4					
OTAL TIME: 3h20m					
EAMS: 2					

SQUARE	1 80			
DATE			08/9	Max
				Count
SURVEY TIME			105m	
COMMON NAME	SYSTEMATIC NAME			
White-bellied Sea-Eagle	Haliaeetus leucogaster		2	2
Green-winged Pigeon	Chalcophaps indica		2	2
Sulawesi Hanging-Parrot	Loriculus stigmatus	*	2	2
Lesser Coucal	Centropus bengalensis		2	2
Grey-rumped Tree-Swift	Hemiprocne longipennis		7	7
Collared Kingfisher	Halcyon chloris		9	9
Pacific Swallow	Hirundo tahitica		3	3
Black-naped Oriole	Oriolus chinensis		3	3
Piping Crow	Corvus typicus	*	2	2
Pied Bushchat	Saxicola caprata		3	3
Black-naped Monarch	Hypothymis azurea puella		2	2
White-breasted Woodswallow	Artamus leucorhynchus		4	4
Sulawesi Crested Myna	Basilomis celebensis	*	3	3
Brown-throated Sunbird	Anthreptes malacensis		4	4
Black Sunbird	Nectarinia aspasia		9	9
Olive-backed Sunbird	Nectarinia jugularis		6	6
Crimson Sunbird	Aethopyga siparaja		4	4
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	*	8	8
Grey-sided Flowerpecker	Dicaeum celebicum	*	5	5
Lemon-bellied White-Eye	Zosterops chloris	**	6	6
Pale-bellied White-Eye	Zosterops consobrinorum	*	2	2
Buttonquail species	Turnix sp		1	1
TOTAL SPECIES: 22				
SULAWESI ENDEMICS: 6				
NDONESIAN ENDEMICS: 1				
FOTAL TIME: 1h45m				
reams: 1				

SQUARE	83		+	4
DATE	- 1935 - 1830 - 1831 - 1831 - 1832 -		25/9	Max
			<u> </u>	Coun
SURVEY TIME			300m	
COMMON NAME	SYSTEMATIC NAME			
Pacific Reef-Egret	Egretta sacra		1	
Striated Heron	Butorides striatus		2	2
Osprey	Pandion haliaetus	<del> </del>	2	2
Sulawesi Serpent-Eagle	Spilornis rufipectus		3	3
Spot-tailed Goshawk	Accipiter trinotatus		1	1
Curlew Sandpiper	Calidris ferruginea	<del></del>	2	2
Common Sandpiper	Actitis hypoleucos		7	7
Whimbrel	Numenius phaeopus		1	<del></del>
Slender-billed Cuckoo-Dove	Macropygia amboinensis		4	4
White-faced Cuckoo-Dove	Turacoena manadensis		2	2
			2	2
Green-winged Pigeon	Chalcophaps indica Treron griseicauda		>57	>57
Grey-cheeked Green Pigeon Black-naped Fruit-Dove	Ptlinopus melanospila		<del></del>	>26
			>26 7	7
Pink-headed Imperial Pigeon	Ducula rosacea			Andrew Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street,
White Imperial Pigeon	Ducula luctuosa		>30	>30
Sulawesi Hanging-Parrot	Loriculus stigmatus		4	4
Fiery-billed Malkoha	Phaenicophaeus calyorhynchus		6	6
Bay Coucal	Centropus celebensis		11	11
Grey-rumped Tree-Swift	Hemiprocne longipennis		9	9
White-bellied Swiftlet	Collocalia esculenta		8	8
Jniform Swiftlet	Aerodramus vanikorensis		1	1
Great-billed Kingfisher	Halcyon melanorhyncha		1	1
Collared Kingfisher	Halcyon chloris		2	2
Common Kingfisher	Alcedo atthis		3	3
Sulawesi Hornbill	Penelopides exarthatus	*	5	5
Red-knobbed Hombill	Rhyticeros cassidix	*	1	11
Ashy Woodpecker	Mulleripicus fulvus	*	4	4
Pacific Swallow	Hirundo tahitica		6	6
White-rumped Cuckoo-Shrike	Coracina leucopygia	<u> </u>	6	6
Common Cicadabird	Coracina tenuirostris		2	2
Hair-crested Drongo	Dicrurus hottentottus		9	9
Black-naped Oriole	Oriolus chinensis		8	8
Piping Crow	Corvus typicus	*	2	2
Sulawesi Babbler	Trichastoma celebense		14	14
Black-naped Monarch	Hypothymis azurea puella		6	6
Citrine Flycatcher	Culicicapa helianthea		9	9
Sulawesi Crested Myna	Basilornis celebensis	*	3	3
Vhite-necked Myna	Streptocitta albicollis	*	2	2
Brown-throated Sunbird	Anthreptes malacensis		5	5
Black Sunbird	Nectarinia aspasia		4	4
Crimson Sunbird	Aethopyga siparaja			4
ellow-sided Flowerpecker	Dicaeum aureolimbatum	*	10	10
Grey-sided Flowerpecker	Dicaeum celebicum		6	6
OTAL SPECIES: 43				
SULAWESI ENDEMICS: 18				
NDONESIAN ENDEMICS: 2				
OTAL TIME: 5h				
EAMS: 1		17		-

SQUARE	90 (SIUMPU ISLAND)		07/0	400	07/44	12/11	64
DATE	A STATE OF THE STA		07/8	10/9	07/11	13/11	Max
ram e timo almo disprinte en como su e alebraigo de monda del primer de companya de la companya de la companya			<u> </u>	400			Coun
SURVEY TIME			40m	180m	220m	24Um	
COMMON NAME	SYSTEMATIC NAME		<u> </u>				
Pacific Reef-Egret	Egretta sacra					5	5
Brahminy Kite	Haliastur indus		1	9			9
White-bellied Sea-Eagle	Haliaeetus leucogaster		<u> </u>	1		1	1
Sulawesi Serpent-Eagle	Spilornis rufipectus		1	1		<u>-</u>	<del>  i</del>
Spotted Harrier	Circus assimilis		<del>}</del>	1			<del>  i</del>
Spotted Kestrel	Falco moluccensis	**			1	3	3
Common Sandpiper	Actitis hypoleucos		<u> </u>		1		1 1
Great Crested Tern	Sterna bergli		Ì	1			1
Spotted Dove	Streptopelia chinensis		<b> </b>	3	2		3
Slender-billed Cuckoo-Dove	Macropygia amboinsis		1			l	1
Green-winged Pigeon	Chalcophaps indica		1				1-1-
the state of the s				2		l	2
Zebra Dove	Geopelia striata		<del> </del>	2		>10	>10
Pink-necked Green Pigeon	Treron vernans	**	ļ	<b> </b> -	1	710	1
Grey-cheeked Green Pigeon	Treron griseicauda		<del> </del>	3	5	2	5
Black-naped Fruit-Dove	Phlinopus melanospila				5		
Pied Imperial Pigeon	Ducula bicolor		<b> </b>	2	_		2 2
White Imperial Pigeon	Ducula luctuosa		ļ	2	2		
Sulawesi Hanging-Parrot	Loriculus stigmatus		<u> </u>		3	1	3
Oriental Cuckoo	Cuculus saturatus		ļ		1		1 3
Plaintive Cuckoo	Cacomantis merulinus		<u> </u>		2	3	
Lesser Coucal	Centropus bengalensis		<u> </u>		2	4	4
White-bellied Swiftiet	Collocalia esculenta		9	>15	>34	>11	>34
Uniform Swiftlet	Aerodramus vanikorensis				>8	2	>8
Collared Kingfisher	Halcyon chloris			2			2
Sacred Kingfisher	Halcyon sancta			3			3
Rainbow Bee-eater	Merops ornatus		<u> </u>	15			15
Purple-winged Roller	Coracias termminckii			2 5	4	1	4
Pacific Swallow	Hirundo tahitica						5
White-rumped Cuckoo-Shrike	Coracina leucopygia			2	5	1	5
Hair-crested Drongo	Dicrurus hottentottus			7	3	8	8
Black-naped Oriole	Oriolus chinensis		1	4	4	3	4
Slender-billed Crow	Corvus enca			8	2	6	8
Pied Bushchat	Saxicola caprata			3	2	9	9
Zitting Cisticola	Cisticola juncidis				3	7	7
Golden-headed Cisticola	Cisticola exilis					4	4
Black-naped Monarch	Hypothymis azurea puella			1	4	2	4
White-breasted Woodswallow	Artamus leucorhynchus		3	5	5	4	5
Asian Glossy Starling	Aplonis panayensis		14	8	>33	>50	>50
Brown-throated Sunbird	Anthreptes malacensis		2	7	6	12	12
3lack Sunbird	Nectarinia aspasia			4			4
Olive-backed Sunbird	Nectarinia jugularis		6	9	>10	7	>10
Yellow-sided Flowerpecker	Dicaeum aureolimbatum	*		2			2
Grey-sided Flowerpecker	Dicaeum celebicum	*		7	9	5	9
Black-faced Munia	Lonchura molucca	**		>5	>15		>15
Zebra Dove species			1	2	3	2	3
PATEL ADDALES. 41.40							<u> </u>
FOTAL SPECIES: 44 + 1?							<del> </del>
SULAWESI ENDEMICS: 7							<del> </del>
NDONESIAN ENDEMICS: 3 FOTAL TIME: 11h25m							<del> </del>
FEAMS: 4							+

SQUARE	91 (SNAKE ISLAND)		1		
DATE			07/11	14/11	Max
					Count
SURVEY TIME	The distribution cases, and capital agriculture against page a special before the capital agriculture		180m	225m	
a der ransparente age, opening pen gerspare ders den den spening objektioneren situation betrette der det des spenings about the spenings and design and d			ļ		
COMMON NAME	SYSTEMATIC NAME		ļ		
Lesser Frigatebird	Fregata ariel		1 4	1-1-	11
Great-billed Heron	Ardea sumatrana		1	1	1
Pacific Reef-Egret	Egretta sacra		2		2
Striated Heron	Butorides striatus		12	>25	>25
Osprey	Pandion haliaetus		1		1 1
Red-backed Buttonguail	Turnix maculosa		<u> </u>	4	4
White-breasted Waterhen	Amauromis pheonicurus		<u> </u>	7	7
Pacific Golden Plover	Pluvialis fulva			2	2
Grey Plover	Pluvialis equatarola			2	2
Malaysian Plover	Charadrius peronii		5	1	5
Grey-tailed Tattler	Heteroscelus brevipes		2	3	3
Common Sandpiper	Actitis hypoleucos		7	2	7
Whimbrel	Numenius phaeops		5	2	5
Beach Thick-Knee	Esacus magnirostris			1	1
Black-naped Fruit-Dove	Ptlinopus melanospila			5	5
Lesser Coucal	Centropus bengalensis		3	1	3
Sulawesi Barn Owl	Tyto rosenbergii	•	1		1
White-bellied Swiftlet	Collocalia esculenta		13	8	13
Uniform Swiftlet	Aerodramus vanikorensis		10	>5	10
Pacific Swallow	Hirundo tahitica			2	2
Slender-billed Crow	Corvus enca		2	2	2
Pied Bushchat	Saxicola caprata		9	9	9
Golden-bellied Gerygone	Gerygone sulphurea			1	1
Zitting Cisticola	Cisticola juncidis		6	11	11
White-breasted Woodswallow	Artamus leucorhynchus		25	16	25
Brown-throated Sunbird	Anthreptes malacensis			1	1
Olive-backed Sunbird	Nectarinia jugularis		8	>45	>45
omon-bellied White-Eve	Zosterops chloris	**	18	>19	>19
Black-faced Munia	Lonchura molucca	**		4	4
					1
Partridge species ?				4?	47
Maintenance and the second					
TOTAL SPECIES: 29					
SULAWESI ENDEMICS: 1					1
NDONESIAN ENDEMICS: 2					
TOTAL TIME:					
TEAMS: 2		1			1

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