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liaise with and promote the work of existing regional organisations

■ collate and publish material on Oriental birds

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CONSERVATION ALERT

Now you see them, now you don't: how representative are field surveys when most birds are caged? A case study from the lower montane forests of southern Sumatra, Indonesia

MUHAMMAD IQBAL, PORMANSYAH, ARUM SETIAWAN, INDRA YUSTIAN & HILDA ZULKIFLI

In the twenty-first century, the major overwhelming force that threatens to drive an increasing number of avian species to extinction is the trade in birds for human entertainment, whether it is a bird's ability to sing or simply because it has attractive attributes or beautiful plumage (Sykes 2017). The ubiquitous sight of countless caged songbirds across much of South-East Asia is dwarfed by the massive number of birds trapped daily to sustain this trade (Chng et al. 2019). In Indonesia, keeping birds as pets is a very well accepted and widespread hobby (Jepson & Ladle 2005, Iqbal 2016) and the rampant, largely unregulated bird trade has pushed several species to the brink of extinction, including some Sumatran endemic birds (Shepherd 2006, Idbal 2015).

In early February 2020, we visited the lower montane forest of Pagar Alam district, South Sumatra province, and carried out two field surveys using the transect technique to penetrate the forest for a distance of about 1 km. The first transect, carried out on 4 February from 10h00 to 13h00, covered a forested area near Rimba Candi village, hereafter referred to as Rimba Candi Forest (RCF) (Plate 1); the weather was fair and fine. The second, covering forest on the lower slopes of Dempo mountain, hereafter Dempo Mountain Forest (DMF), near Pagar Alam city (Plate 2), was carried out on 5 February from 13h30 to 15h30. Initially the weather was fair and fine but during the last 30 minutes we experienced light to heavy rain. We also visited the villages of Jokoh, Semidang Alas and Rimba Candi as well as Pagar Alam city and confirmed that many households had caged birds as pets; in particular we noted some endemic Sumatran species and subspecies (Plates 4-17). Villagers said that many birds were not on display outside because their owners were at work in their fields and coffee gardens and did not risk displaying their birds when no-one was at home, consequently the true number of caged pet birds was significantly higher than those that we counted.

Plate 1. Remaining lower mountain forest near Rimba Candi village, Pagar Alam district, South Sumatra province, Indonesia, 4 February 2020.





Plate 2. Remaining lower mountain forest at the foot of Dempo moutain, Pagar Alam district, 5 February 2020.

Table 1. Birds observed during visit in February 2020 to lower montane forest, Pagar Alam district, South Sumatra province, Indonesia, including pet birds recorded in homes of local people.

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CR = Critically Endangered; **EN** = Endangered; **VU** = Vulnerable; **NT** = Near Threatened.

Species and threat status	RCF	DMF	VIL	PAC	Notes
Sooty-headed Bulbul Pycnonotus aurigaster	+	+	+	+	
Yellow-vented Bulbul Pycnonotus goiavier	+	+	+	+	
Ochraceous Bulbul Alophoixus ochraceus	+	+	+	+	ESS
Spot-necked Bulbul Pycnonotus tympanistrigus NT			+	+	ES
Ruby-throated Bulbul Rubigula dispar VU				+	
Sumatran Leafbird Chloropsis media EN			+	+	P, ES
Blue-masked Leafbird Chloropsis venusta NT			+	+	P, ES
White-rumped Shama Kittacincla malabarica			+	+	
Oriental Magpie Robin Copsychus saularis			+	+	
Fulvous-chested Jungle Flycatcher Cyornis olivaceus			+		
Common Green Magpie Cissa chinensis			+	+	
Sumatran Laughingthrush Garrulax bicolor EN			+	+	ES
Chestnut-capped Laughingthrush Garrulax mitratus NT			+	+	
Sunda Laughingthrush Garrulax palliatus NT			+	+	
Long-tailed Shrike Lanius schach	+	+	+	+	
Black-winged Starling Acridotheres melanopterus CR				+	EJ
Javan Pied Starling Gracupica jalla CR				+	EJ
Bar-winged Prinia Prinia familiaris NT	+	+	+	+	
White-eye Zosterops sp.			+	+	
Spiderhunter Arachnothera sp.	+				
Ruby-cheeked Sunbird Chalcoparia singalensis	+	+	+	+	
Brown-throated Sunbird Anthreptes malacensis			+	+	ESS

Evidently, quite extensive patches of forest remain in the Pagar Alam lower montane zone (Plates 1 & 2), although many formerly forested areas have been converted to coffee plantations. Bird hunting was reported to be common in both the RCF and DMF, and we were not surprised that birds were very hard to find there. We noted passerine species observed during the field surveys and those that we encountered held captive in cages as pets by local people (Table 1). The numbers of the formerly common birds found in the wild were as follows: Sooty-headed Bulbul Pycnonotus aurigaster, about 10 birds in RCF, near the village and gardens, and about 5 in DMF, also near village and gardens; Yellow-vented Bulbul P. goiavier, about 16 birds in RCF, near village and gardens, with 6 to 8 in DMF, also near village and gardens; Ochraceous Bulbul Alophoixus ochraceus, 4 to 6 birds in RCF and 2 or 3 birds in DMF; Longtailed Shrike Lanius schach, about 6 birds in RCF, near village and gardens, with 3 or 4 birds in DMF, near village and tea plantation; Bar-winged Prinia Prinia familiaris, about 6 birds in RCF, near village and gardens, with 2 or 3 birds in DMF, near village and tea plantation; spiderhunter Arachnothera sp., about 3 birds in RCF (based on calls); and Rubycheeked Sunbird Chalcoparia singalensis, about 2 birds in RCF and about 6 birds in DMF.

Our discussions with the villagers in these areas indicated that local hunters were continuing to trap birds locally, but with diminishing returns. An informant from Jokoh village said that three or four years ago, he could collect 10 Oriental Magpie Robin Copsychus saularis and up to 80 white-eye Zosterops sp. daily, but Oriental Magpie Robin might now be locally extinct and white-eyes were becoming very hard to find. Bird hunting is seasonal and peaks between September and March, during the low season for coffee production. Although villagers use airguns relatively frequently to deter and expel animals regarded as garden pests, they do not hunt birds with guns. Local hunters sometimes make surveys to monitor where target species breed and, when their eggs hatch, they harvest the chicks immediately. They advised that chicks command higher prices than adult birds, because when birds grow to adulthood in cages, they become acclimatised to this environment and are more docile, easier to care for and survive longer. Most hunters use birdlime to trap the birds, with glue made from local plants or, if this is not available, commercial glue may be purchased; hunting using mist-nets is not common in this area. In winter (December and January), hunting of large numbers of the migratory Eyebrowed Thrush Turdus obscurus—up 300-500 birds per night-was also reported by residents of



Plate 3. The Critically Endangered Javan endemic Blackwinged Starling Acridotheres melanopterus, Pagar Alam city, 5 February 2020.

Rimba Candi village, a practice previously reported as widespread in Sumatra (Iqbal *et al.* 2018).

Local hunters sell their birds for between IDR 300,000 and IDR 500,000 (US\$22 to US\$37). Massive hunting of passerine songbirds in the lower mountains of southern Sumatra should be a matter of special concern. Only seven passerine species were observed during the two field surveys, but 18 species were recorded as caged birds in village houses.

In Pagar Alam city, we also found two Critically Endangered Javan endemics—Black-winged Starling Acridotheres melanopterus and Javan Pied Starling Gracupica jalla—in the home of a wealthy local resident (Plate 3). The owner said that he purchased the birds from a seller from Palembang city, capital of South Sumatra province. We assume that information exchange between sellers, buyers and hunters is excellent because social media platforms such as WhatsApp and Facebook are well developed in most parts of South Sumatra province. In addition, although many birds are kept quite commonly as pets in local people's homes, we did not find endemic forest songbirds on sale in Pagar Alam city bird market on 7 February 2020. The birds displayed for sale were Sooty-headed Bulbul, Yellow-vented Bulbul, lovebird Agapornis sp., Budgerigar Melopsittacus undulatus, Rock Dove/ Feral Pigeon *Columba livia*, Eastern Spotted Dove Spilopelia chinensis and buttonquail Turnix sp.. The Pagar Alam bird market is very close to a residential police office, so the traders are more likely to know about species protection and the implications of selling protected or exotic species.

Sumatra's lower montane forests lie between 1,200–2,100 m (Whitten *et al.* 2000). This area, designated as part of the Sumatra and Peninsular Malaysia Endemic Bird Area (EBA), comprises the Bukit Barisan mountain range, which runs the entire length of western Sumatra from Aceh province in the north to Lampung province in the



Plate 4. Male Sumatran Leafbird *Chloropsis media*, Jokoh village, Pagar Alam district, 4 February 2020.



Plate 6. Sumatran Laughingthrush *Garrulax bicolor*, Rimba Candi village, 4 February 2020.



Plate 8. Common Green Magpie *Cissa chinensis* dead in its cage, Rimba Candi village, 4 February 2020.

Plate 10. Spot-necked Bulbul *Pycnonotus tympanistrigus*, Rimba Candi village, 4 February 2020.





Plate 5. Female Sumatran Leafbird, Jokoh village, 4 February 2020.



Plate 7. Male Blue-masked Leafbird *Chloropsis venusta*, Rimba Candi village, 4 February 2020.



Plate 9. White-eye Zosterops sp., Rimba Candi village, 4 February 2020.

Plate 11. Ochraceous Bulbul *Alophoixus ochraceus sumatranus* (endemic Sumatran subspecies), Rimba Candi village, 4 February 2020.





Plate 12. Ruby-cheeked Sunbird *Chalcoparia singalensis sumatrana* (endemic Sumatran subspecies), Jokoh village, 4 February 2020.



Plate 14. Brown-throated Sunbird Anthreptes malacensis, Jokoh village, 4 February 2020.



Plate 16. Sunda Laughingthrush *Garrulax palliatus*, Rimba Candi village, 4 February 2020.

south (Sujatnika *et al.* 1995), and is home to many endemic bird species. According to BirdLife International (2020), the main threat to the birds of the EBA is deforestation; however, our findings and information from local people living around the lower slopes of Dempo mountain suggest that hunting must be considered as the main threat rather than deforestation, at least in the area we visited. When our 1 km transect surveys in the forest found only seven passerine species, whilst our observations in local homes found 18 species, it is clear that finding lower montane forest birds in South Sumatra is easier in local homes than in



Plate 13. Bar-winged Prinia Prinia familiaris, Jokoh village, 4 February 2020.



Plate 15. Chestnut-capped Laughingthrush Garrulax mitratus, Rimba Candi village, 4 February 2020.



Plate 17. Ruby-throated Bulbul Rubigula dispar, Pagar Alam city, 5 February 2020.

the forest itself. If a comprehensive survey of all village homes were to be made, the number of individuals and species found would increase. As already proposed by Rentschlar *et al.* (2018) for Kalimantan, we recommend that government authorities and conservationists focus on conserving Sumatra's remaining forest and reducing demand through education and behavioural change programmes, particularly in areas where there is heavy hunting of birds and conservation programmes are limited, as is the case in the lower mountains of South Sumatra province.

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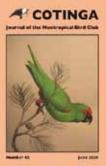
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Now you see them, now you don't: how representative are field surveys when most birds are caged? A case study from the lower montane forests of southern Sumatra, Indonesia

By Arum Setiawan

WORD COUNT

CONSERVATION ALERT

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Spot-necked Bulbul Pycnonotus tympanistrigus NT			+	+	ES	
Ruby-throated Bulbul Rubigula dispar VU				+		
Sumatran Leafbird Chloropsis media EN			+	+	P, ES	
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White-rumped Shama Kittacincla malabarica			+	+		
Oriental Magpie Robin Copsychus saularis			+	+		
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Sunda Laughingthrush Garrulax palliatus NT			+	+		
Long-tailed Shrike Lanius schach	+	+	+	+		
Black-winged Starling Acridotheres melanopterus CR				+	EJ	
Javan Pied Starling Gracupica jalla CR				+	EJ	
Bar-winged Prinia Prinia familiaris NT	+	+	+	+		
White-eye Zosterops sp.			+	+		
Spiderhunter Arachnothera sp.	+					
Ruby-cheeked Sunbird Chalcoparia singalensis	+	+	+	+		
Brown-throated Sunbird Anthreptes malacensis			+	+	ESS	

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Evidently, quite extensive patches of forest remain in the Pagar Alam lower montane zone (Plates 1 & 2), although many formerly forested areas have been converted to coffee plantations. Bird hunting was reported to be common in both the RCF and DMF, and we were not surprised that birds were very hard to find there. We noted passerine species observed during the field surveys and those that we encountered held captive in cages as pets by local people (Table 1). The numbers of the formerly common birds found in the wild were as follows: Sooty-headed Bulbul Pycnonotus aurigaster, about 10 birds in RCF, near the village and gardens, and about 5 in DMF, also near village and gardens; Yellow-vented Bulbul P. goiavier, about 16 birds in RCF, near village and gardens, with 6 to 8 in DMF, also near village and gardens; Ochraceous Bulbul Alophoixus ochraceus, 4 to 6 birds in RCF and 2 or 3 birds in DMF; Longtailed Shrike Lanius schach, about 6 birds in RCF, near village and gardens, with 3 or 4 birds in DMF, near village and tea plantation; Bar-winged Prinia Prinia familiaris, about 6 birds in RCF, near village and gardens, with 2 or 3 birds in DMF, near village and tea plantation; spiderhunter Arachnothera sp., about 3 birds in RCF (based on calls); and Rubycheeked Sunbird Chalcoparia singalensis, about 2 birds in RCF and about 6 birds in DMF.

Our discussions with the villagers in these areas indicated that local hunters were continuing to trap birds locally, but with diminishing returns. An informant from Jokoh village said that three or four years ago, he could collect 10 Oriental Magpie Robin Copsychus saularis and up to 80 white-eye Zosterops sp. daily, but Oriental Magpie Robin might now be locally extinct and white-eyes were becoming very hard to find. Bird hunting is seasonal and peaks between September and March, during the low season for coffee production. Although villagers use airguns relatively frequently to deter and expel animals regarded as garden pests, they do not hunt birds with guns. Local hunters sometimes make surveys to monitor where target species breed and, when their eggs hatch, they harvest the chicks immediately. They advised that chicks command higher prices than adult birds, because when birds grow to adulthood in cages, they become acclimatised to this environment and are more docile, easier to care for and survive longer. Most hunters use birdlime to trap the birds, with glue made from local plants or, if this is not available, commercial glue may be purchased; hunting using mist-nets is not common in this area. In winter (December and January), hunting of large numbers of the migratory Eyebrowed Thrush Turdus obscurus-up 300-500 birds per night-was also reported by residents of

Plate 3. The Critically Endangered Javan endemic Blackwinged Starling Acridotheres melanopterus, Pagar Alam city, 5 February 2020.

Rimba Candi village, a practice previously reported as widespread in Sumatra (Iqbal *et al.* 2018).

Local hunters sell their birds for between IDR 300,000 and IDR 500,000 (US\$22 to US\$37). Massive hunting of passerine songbirds in the lower mountains of southern Sumatra should be a matter of special concern. Only seven passerine species were observed during the two field surveys, but 18 species were recorded as caged birds in village houses.

In Pagar Alam city, we also found two Critically Endangered Javan endemics—Black-winged Starling Acridotheres melanopterus and Javan Pied Starling Gracupica jalla—in the home of a wealthy local resident (Plate 3). The owner said that he purchased the birds from a seller from Palembang city, capital of South Sumatra province. We assume that information exchange between sellers, buyers and hunters is excellent because social media platforms such as WhatsApp and Facebook are well developed in most parts of South Sumatra province. In addition, although many birds are kept quite commonly as pets in local people's homes, we did not find endemic forest songbirds on sale in Pagar Alam city bird market on 7 February 2020. The birds displayed for sale were Sooty-headed Bulbul, Yellow-vented Bulbul, lovebird Agapornis sp., Budgerigar Melopsittacus undulatus, Rock Dove/ Feral Pigeon Columba livia, Eastern Spotted Dove Spilopelia chinensis and buttonguail Turnix sp.. The Pagar Alam bird market is very close to a residential police office, so the traders are more likely to know about species protection and the implications of selling protected or exotic species.

Sumatra's lower montane forests lie between 1,200–2,100 m (Whitten *et al.* 2000). This area, designated as part of the Sumatra and Peninsular Malaysia Endemic Bird Area (EBA), comprises the Bukit Barisan mountain range, which runs the entire length of western Sumatra from Aceh province in the north to Lampung province in the



Plate 4. Male Sumatran Leafbird *Chloropsis media*, Jokoh village, Pagar Alam district, 4 February 2020.



Plate 6. Sumatran Laughingthrush Garrulax bicolor, Rimba Candi village, 4 February 2020.



Plate 8. Common Green Magpie *Cissa chinensis* dead in its cage, Rimba Candi village, 4 February 2020.

Plate 10. Spot-necked Bulbul Pycnonotus tympanistrigus, Rimba Candi village, 4 February 2020.





Plate 5. Female Sumatran Leafbird, Jokoh village, 4 February 2020.



Plate 7. Male Blue-masked Leafbird Chloropsis venusta, Rimba Candi village, 4 February 2020.



Plate 9. White-eye Zosterops sp., Rimba Candi village, 4 February 2020.

Plate 11. Ochraceous Bulbul Alophoixus ochraceus sumatranus (endemic Sumatran subspecies), Rimba Candi village, 4 February 2020.



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Plate 12. Ruby-cheeked Sunbird *Chalcoparia singalensis* sumatrana (endemic Sumatran subspecies), Jokoh village, 4 February 2020.



Plate 14. Brown-throated Sunbird Anthreptes malacensis, Jokoh village, 4 February 2020.



Plate 16. Sunda Laughingthrush Garrulax palliatus, Rimba Candi village, 4 February 2020.

south (Sujatnika *et al.* 1995), and is home to many endemic bird species. According to BirdLife International (2020), the main threat to the birds of the EBA is deforestation; however, our findings and information from local people living around the lower slopes of Dempo mountain suggest that hunting must be considered as the main threat rather than deforestation, at least in the area we visited. When our 1 km transect surveys in the forest found only seven passerine species, whilst our observations in local homes found 18 species, it is clear that finding lower montane forest birds in South Sumatra is easier in local homes than in



Plate 13. Bar-winged Prinia Prinia familiaris, Jokoh village, 4 February 2020.



Plate 15. Chestnut-capped Laughingthrush Garrulax mitratus, Rimba Candi village, 4 February 2020.



Plate 17. Ruby-throated Bulbul Rubiguladispar, Pagar Alam city, 5 February 2020.

the forest itself. If a comprehensive survey of all village homes were to be made, the number of individuals and species found would increase. As already proposed by Rentschlar *et al.* (2018) for Kalimantan, we recommend that government authorities and conservationists focus on conserving Sumatra's remaining forest and reducing demand through education and behavioural change programmes, particularly in areas where there is heavy hunting of birds and conservation programmes are limited, as is the case in the lower mountains of South Sumatra province.

Now you see them, now you don't: how representative are field surveys when most birds are caged?

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Now you see them, now you don't: how representative are field surveys when most birds are caged? A case study from the lower montane forests of southern Sumatra, Indonesia

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	b. Nomor/Volume/Hal	: 1/33/19-24
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