

Rapid Assessment of Hornbills at Ravenscourt Forest Management Unit (FMU), Lawas
Malaysian Nature Society Kuching Branch (MNSKB)
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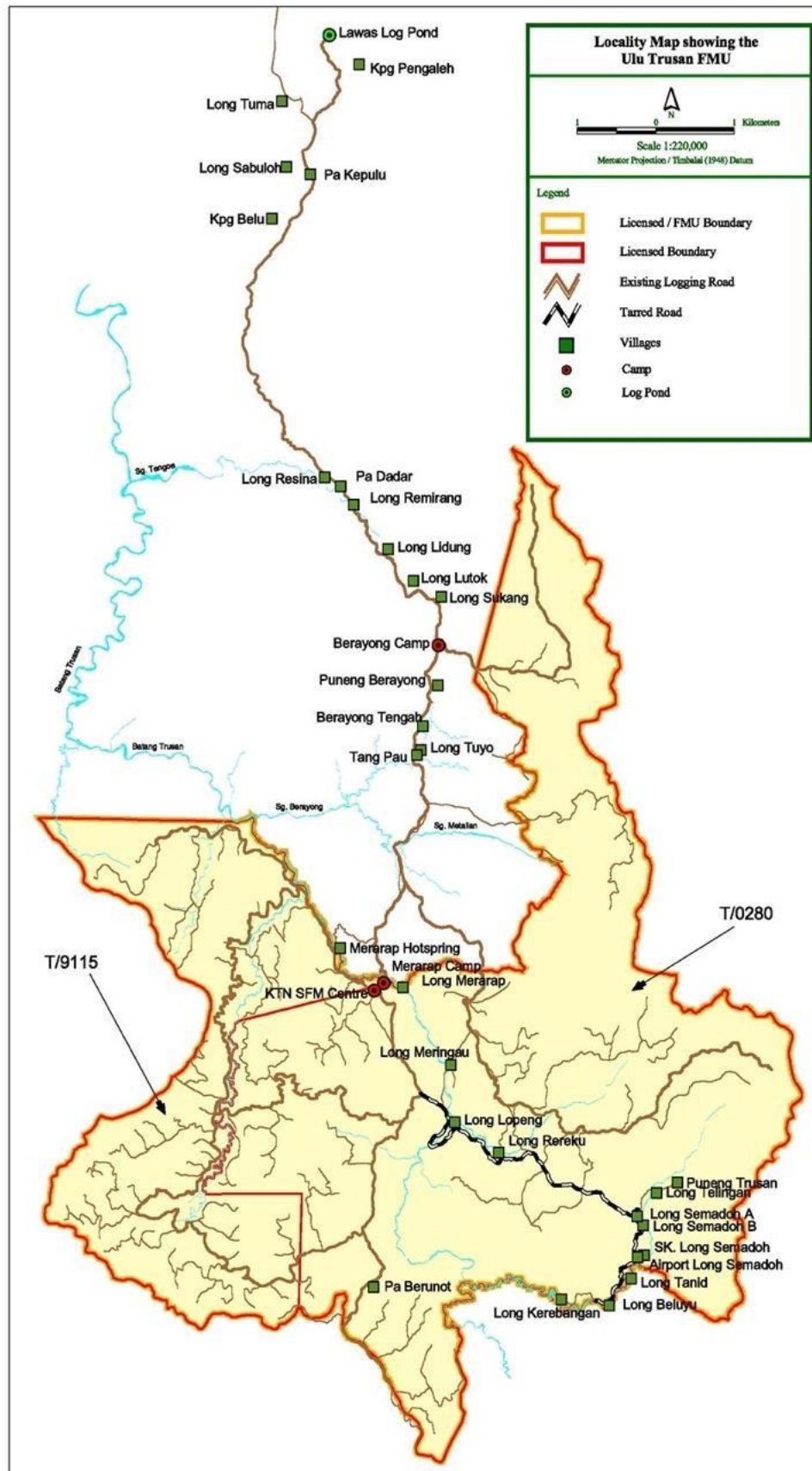
Ravenscourt Forest Management Unit (FMU) belongs to Samling Group of Companies. The FMU was issued a Forest Timber License (FTL) by Sarawak Forest Department on 28th January 1986 to manage a total area of 117,941 ha. This FMU is located 113 km from Lawas town and can be accessed by land by logging roads. All the four trails visited within the Ravenscourt FMU area are logging trails which are no longer in use. The FMU is located at an elevation, ranging from 800 to 1600 m asl. Forest types which can be found within the FMU is Hilly Mixed Dipterocarp Forest, Kerangas Forest and Lower Sub-montane Forest. The four trails within the Ravenscourt FMU are old logging trails with logged secondary forests fringing the edge. The highest elevation recorded during the survey was 1363 m asl. For the trail in Paya Maga, the team only walked until Camp 1 where the forest type is generally secondary forest with a swamp forest floor in certain areas.

The rapid assessment of hornbills was carried out between 28th September 2022 and 4th October 2022 with a total of five survey days. A total of five trails were surveyed where line transects and point counts were conducted. Line transects were conducted from the start point to the end point while point counts were conducted while walking from the end point to the start point. Point counts were conducted with intervals of 600 m with the duration of exactly 20 minutes at each point count. During the line transects and point counts, observation of birds were done based on sightings and calls. 86 species of birds were identified in the Ravenscourt FMU and 34 species were recorded along the trail in Paya Maga. One of the notable findings was the Black Oriole *Oriolus hosii* which could be observed throughout the Ravenscourt FMU. Please refer to the Bird List for more information. Other wildlife sightings include the Hose's Langur *Presbytis hosei*, Bornean Striped Palm Civet *Arctogalidia trivirgata*, Yellow-throated Marten *Martes flavigula* and Gibbons which were frequently heard there. Reptile species seen opportunistically included the Oriental Vine Snake *Ahaetulla prasina*, Speckle-headed Vine Snake *Ahaetulla fasciolata* and King Cobra *Ophiophagus hannah*. Please refer to the Additional Notes in the sampling data and Photos Section for more information.

The major threat to the hornbills is most likely habitat degradation. Ravenscourt FMU is a Forest Management Unit with a timber license thus there were only a few trees greater than 50 cm DBH within the area. As hornbills require large trees for nesting, this could be the threat to their population. According to the interviews obtained from the local community, hunting might also have been a threat to the hornbill species especially before the pandemic as outsiders would trespass across the borders.

Community interviews were also conducted among the Lun Bawang natives in Ravenscourt FMU, Ba'Kelalan and Paya Maga in order to gather information and knowledge on hornbills and wildlife threats in the areas. According to the interviewees, the hornbills could be heard and seen in their area during the fruiting season. Most of the interviewees are able to recognize the hornbill species. Interestingly, there are local names for almost every hornbill species i.e. 'Menagang' (Rhinoceros Hornbill), 'Rot' (Wreathed Hornbill), 'Menudun' (Helmeted Hornbill), and 'Sui Teroek' (Black Hornbill). The two species of hornbills which are commonly seen and heard by the interviewees within the area are the Wreathed and Black Hornbills. The hornbills parts are not traditionally used by the Lun Bawang people but there are outsiders who would trespass and hunt in their area.

We would like to thank the staff of Forest Management Certification (FMC) team from Samling Group of Companies who participated and helped us throughout the surveys, Frazier Parose, Racheal Rosedy, Christly Bian Dawat, Clarence Agong Elia, Bryan Danil, Jack Palong, Robin Rining, Lorin Sanggit and Samuel Pengiran.



Map 2. Locality Map of Ulu Trusan FMU (Credit: Samling Group of Companies)



Photo 1. Ravenscourt FMU office (Credit: Batrisyia Teepol)



Photo 2. Walking along a trail in Paya Maga (Credit: Batrisyia Teepol)



Photo 3. Line transect in Trail 3 (Credit: Hendry Michael Paong)



Photo 4. Team observing Sambar Deer tracks in Trail 1 (Credit: Racheal Rosedy)



Photo 5. Potential hole observed in Trail 3 but no sighting of hornbills
(Credit: Batrisyia Teepol)



Photo 6. Team looking for Hornbill (Credit: Batrisyia Teepol)



Photo 7. Conducting point counts in Trail 1 (Credit: Batrisyia Teepol)



Photo 8. Team before entering a trail (Credit: Batrisyia Teepol)



Photo 13. Interviewing Samling staff in Demaring (Credit: Racheal Rosedy)



Photo 14. Line transect in Trail 3 (Credit: Hendry Michael Paong)



Photo 15. The unsuccessful nesting tree (Credit: Ng Jia Jie)



Photo 16. Group photo at Demaring hut (Credit: Racheal Rosedy)



Photo 17. Group photo with the guide at Paya Maga (Credit: Batrisyia Teepol)



Photo 18. Photo with Samling management staff at their office (Credit: Batrisyia Teepol)



Photo 19. Team photo after surveying Paya Maga (Credit: Hendry Michael Paong)



Photo 20. Blue-banded Pitta (Credit: Hendry Michael Paong)



Photo 21. Bornean-banded Pitta (Credit: Hendry Michael Paong)



Photo 22. Black Oriole in Ravenscourt FMU (Credit: Batrisyia Teepol)



Photo 23. Bornean Bulbul (Credit: Batrisyia Teepol)



Photo 24. Dark-sided Flycatcher (Credit: Batrisyia Teepol)



Photo 25. Mountain Barbet (Credit: Batrisyia Teepol)



Photo 26. Female Jambu Fruit Dove (Credit: Ng Jia Jie)



Photo 27. A male Bornean Leafbird (Credit: Ng Jia Jie)



Photo 28. Bushy-crested Hornbill pair (Credit: Batrisyia Teepol)



Photo 29. Male Hose's Langur (Credit: Ng Jia Jie)



Photo 30. Rhinceros Hornbills flying over Batu Lawi (Credit: Ng Jia Jie)



Photo 31. Adult male Wreathed Hornbill (Credit: Ng Jia Jie)



Photo 32. Giant Squirrel (Credit: Ng Jia Jie)



Photo 33. King Cobra (Credit: Ng Jia Jie)



Photo 34. Red-necked Phalarope (Credit: Ng Jia Jie)



Photo 35. Whitehead's Pygmy Squirrel (Credit: Ng Jia Jie)

Table 1. Bird list in Ravenscourt FMU

No	Common Name	Scientific Name
1	Ashy Drongo	<i>Dicrurus leucophaeus</i>
2	Ashy Tailorbird	<i>Orthotomus ruficeps</i>
3	Asian Koel	<i>Eudynamys scolopaceus</i>
4	Bar-winged Flycatcher-shrike	<i>Hemipus picatus</i>
5	Barn Swallow	<i>Hirundo rustica</i>
6	Black Eagle	<i>Ictinaetus malaiensis</i>
7	Black Oriole	<i>Oriolus hosii</i>
8	Black-and-crimson Oriole	<i>Oriolus cruentus</i>
9	Black-and-yellow Broadbill	<i>Eurylaimus ochromalus</i>
10	Black-bellied Malkoha	<i>Phaenicophaeus diardi</i>
11	Black-capped Babbler	<i>Pellornium capistratum</i>
12	Black-naped Monarch	<i>Hypothymis azurea</i>
13	Black-thighed Falconet	<i>Microhierax fringillarius</i>
14	Blue-banded Pitta	<i>Erythropitta arquata</i>
15	Blue-eared Barbet	<i>Psilopogon duvaucelii</i>
16	Blyth's Hawk-Eagle	<i>Nisaetus alboniger</i>
17	Blyth's Paradise Flycatcher	<i>Terpsiphone affinis</i>
18	Bold-striped Tit-Babbler	<i>Mixornis bornensis</i>
19	Bornean Banded Pitta	<i>Hydronis schwaneri</i>
20	Bornean Barbet	<i>Psilopogon eximus</i>
21	Bornean Bulbul	<i>Rubigula montis</i>
22	Bornean Leafbird	<i>Chloropsis kinabaluensis</i>
23	Bornean Spiderhunter	<i>Arachnothera everetti</i>
24	Bornean Treepie	<i>Dendrocitta cinerascens</i>
25	Brown Fulvetta	<i>Alcippe brunneicauda</i>
26	Brown-backed Needletail	<i>Hirundapus giganteus</i>
27	Bushy-crested Hornbill	<i>Anorrhinus galeritus</i>
28	Charlotte's Bulbul	<i>Iole charlottae</i>
29	Chesnut-backed Scimitar-Babbler	<i>Pomartorhinus montanus</i>
30	Chestnut-bellied Malkoha	<i>Phaenicophaeus sumatranus</i>
31	Chestnut-crested Yuhina	<i>Staphida evertti</i>
32	Chestnut-hooded Laughingthrush	<i>Pterorhinus treacheri</i>
33	Chestnut-winged Babbler	<i>Cyanoderma erythropterum</i>
34	Cinereous Bulbul	<i>Hemixos cinereus</i>
35	Crested Shrikejay	<i>Platylophus galericulatus</i>
36	Crimson-headed Partridge	<i>Haematortyx sanguiniceps</i>
37	Crimson-winged Woodpecker	<i>Picus puniceus</i>
38	Dark Hawk-Cuckoo	<i>Hierococcyx bocki</i>

39	Dark-sided Flycatcher	<i>Muscicapa sibirica</i>
40	Dusky Munia	<i>Lonchura fuscans</i>
41	Fluffy-backed Tit-Babbler	<i>Macronus ptilosus</i>
42	Gold-whiskered Barbet	<i>Psilopogon chrysopogon</i>
43	Golden-bellied Gerygone	<i>Gerygone sulphurea</i>
44	Great Argus	<i>Argusianus argus</i>
45	Greater Coucal	<i>Centropus sinensis</i>
46	Grey wagtail	<i>Motacilla cinerea</i>
47	Jambu Fruit Dove	<i>Ptilinopus jambu</i>
48	Japanese Sparrowhawk	<i>Accipiter gularis</i>
49	Little Cuckoo-Dove	<i>Macropygia ruficeps</i>
50	Little Spiderhunter	<i>Arachnothera longirostra</i>
51	Long-billed Spiderhunter	<i>Arachnothera robusta</i>
52	Malaysian Pied Fantail	<i>Rhipidura javanica</i>
53	Maroon-breasted Philentoma	<i>Philentoma velata</i>
54	Mountain Barbet	<i>Psilopogon monticola</i>
55	Mountain Serpent-Eagle	<i>Spilornis kinabaluensis</i>
56	Orange-bellied Flowerpecker	<i>Dicaeum trigonostigma</i>
57	Oriental Honey-buzzard	<i>Pernis ptilorhynchus</i>
58	Oriental Magpie-Robin	<i>Copsychus saularis</i>
59	Pacific Swallow	<i>Hirundo tahitica</i>
60	Pacific Swift	<i>Apus pacificus</i>
61	Penan Bulbul	<i>Alophoixus ruficrissus</i>
62	Plain Sunbird	<i>Anthreptes simplex</i>
63	Pygmy White-eye	<i>Heleia squamifrons</i>
64	Raffles's Malkoha	<i>Rhinortha chlorophaea</i>
65	Red-bearded Bee-eater	<i>Nyctyornis amictus</i>
66	Red-breasted Partridge	<i>Arborophila hyperythra</i>
67	Red-eyed Bulbul	<i>Pycnonotus brunneus</i>
68	Red-necked Phalarope	<i>Phalaropus lobatus</i>
69	Rhinoceros Hornbill	<i>Buceros rhinoceros</i>
70	Rufous Piculet	<i>Sasia abnormis</i>
71	Rufous-bellied Eagle	<i>Lophotriorchis kienerii</i>
72	Scaly-breasted Bulbul	<i>Rubigula squamata</i>
73	Scarlet Minivet	<i>Pericrocotus speciosus</i>
74	Scarlet-rumped Trogon	<i>Harpactes duvaucelii</i>
75	Slender-billed Crow	<i>Corvus enca</i>
76	Spectacled Bulbul	<i>Rubigula erythrophthalmos</i>
77	Spotted Fantail	<i>Rhipidura albogularis</i>
78	Sunda Cuckooshrike	<i>Coracina larvata</i>
79	Temminck's Sunbird	<i>Aethopyga temminckii</i>

80	White-bellied Erpornis	<i>Erpoenis zantholeuca</i>
81	White-rumped Shama	<i>Copsychus malabaricus</i>
82	Wreathed Hornbill	<i>Rhyticeros undulatus</i>
83	Yellow-bellied Prinia	<i>Prinia flaviventris</i>
84	Yellow-rumped Flowerpecker	<i>Prinophilus xanthopygius</i>
85	Yellow-vented Bulbul	<i>Pycnonotus goiavier</i>

Table 2. Bird list in Paya Maga (Ulu Trusan FMU)

No	Common Name	Scientific Name
1	Ashy Tailorbird	<i>Orthotomus ruficeps</i>
2	Barn Swallow	<i>Hirundo rustica</i>
3	Black Oriole	<i>Oriolus hosii</i>
4	Black-and-yellow Broadbill	<i>Eurylaimus ochromalus</i>
5	Black-naped Monarch	<i>Hypothymis azurea</i>
6	Blue-eared Barbet	<i>Psilopogon duvaucelii</i>
7	Bornean Barbet	<i>Psilopogon eximus</i>
8	Bornean Bulbul	<i>Rubigula montis</i>
9	Bornean Treepie	<i>Dendrocitta cinerascens</i>
10	Brown Fulvetta	<i>Alcippe brunneicauda</i>
11	Brown-backed Needletail	<i>Hirundapus giganteus</i>
12	Checker-throated Woodpecker	<i>Chrysophlegma mentale</i>
13	Chestnut-backed Scimitar-Babbler	<i>Pomartorhinus montanus</i>
14	Chestnut-winged Babbler	<i>Cyanoderma erythropterum</i>
15	Cinereous Bulbul	<i>Hemixos cinereus</i>
16	Crested Shrike Jay	<i>Platylophus galericulatus</i>
17	Dayak Blue Flycatcher	<i>Cyornis montanus</i>
18	Dusky Munia	<i>Lonchura fuscans</i>
19	Gold-whiskered Barbet	<i>Psilopogon chrysopogon</i>
20	Great Argus	<i>Argusianus argus</i>
21	Little Spiderhunter	<i>Arachnothera longirostra</i>
22	Mountain Barbet	<i>Psilopogon monticola</i>
23	Mountain Serpent-Eagle	<i>Spilornis kinabaluensis</i>
24	Penan Bulbul	<i>Alophoixus ruficrissus</i>
25	Pygmy White-eye	<i>Heleia squamifrons</i>
26	Raffles's Malkoha	<i>Rhinortha chlorophaea</i>
27	Red-bearded Bee-eater	<i>Nyctyornis amictus</i>
28	Rhinoceros Hornbill	<i>Buceros rhinoceros</i>
29	Rufous-collared Kingfisher	<i>Actenoides concretus</i>

30	Spectacled Bulbul	<i>Rubigula erythroptalmos</i>
31	Tiger Shrike	<i>Lanius tigrinus</i>
32	White-rumped Shama	<i>Copsychus malabaricus</i>
33	Yellow-bellied Prinia	<i>Prinia flaviventris</i>