Wallace, Alfred Russel. 1854-1861. [WCP5799.M6674: Field Notebook 1]. [Original in Linnean Society of London: LINSOC- MS179. See http://linneanonline.org/54021/\#/0].

Transcribed by the A. R. Wallace Correspondence Project (https://wallaceletters.myspecies.info/), (2024).
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[[1]] [cover]
[[2]] [inside cover]
[Printed sheet pasted in, titled "ALMANACK"]
[[3]]
[Printed sheet (second page of sheet on previous page) pasted in, titled "FOR 1853."]
[[4]] [Numbered "1" in the top left corner of the page, possibly in ARW's hand. Every
third subsequent page is given an appropriate sequential number e.g. 3, 6 etc]
Aborigines of Alabama \& Mississippi made great house like churches holding a hundred or more people.

Irvings Conquest of Florida
Had Buffalo robes, bears grease
Maize in abundance, sweet potatoes.
Used bows \& arrows.
Inhabitants of Florida built their villages upon artificial mounds with steep sides \& one
entrance - Do Do [ditto ditto]
They found bushels of pearls - axes made of copper \& gold.
Arrows 3 feathered, flint, bone or wooden pointed -

Mr Favre air \& mercury Barometer stands 38 centimeters at Malacca — Sunday July 1854.
0123
[[5]]
Geoffroy St. Hilaire, believes mutability of species. - Whewell, Hist. Ind. Sc. p. 630. vol. 3
Reports of Brit. Ass. 1843-? at Sing Library.
Strickland on Affinities of Insessores.
Calcutta Journal of natural History
nos. 17. 19 \& 20 contains descriptions of Palms of British India.

| Pins Entomological. | no. 13. | 11. | 7 |
| :--- | ---: | ---: | ---: |
|  | $6^{\mathrm{d}}$ | $6^{\mathrm{d}}$ | $2 / 9$ |

$1^{5}$ links $=39.6$ inches
1 metre $=39.37079$ inches
1 millimetre $=0.0393$ in $=1 / 25.4 \mathrm{in}$.

$$
\begin{array}{ll}
\text { Singapore, Malacca, Java, Sumatra \& the } & \text { \} Dry - May to October } \\
\text { Moluccas \& W. of Borneo \& Sarawak } & \} \text { Wet - Nov. to April } \\
\text { N.W. Coast of Borneo near Labuan, Siam \& } & \text { Dry - Nov. to April. } \\
\text { the Philippines - \& Moluccas } & \text { Wet - May to October }
\end{array}
$$

Information from Mr. Nicoll
[[6]]
Jukes, Australia.
granite chains \& ancient fossiliferous rocks. - none of the age of our Oolite \& chalk but recent tertiary beds on the $S$. \& west coasts

[^0]Fossil trigoniae, zamias, cycas, \& marsupials in the oolite.
All now abundant in Australia -

## Since partially submerged \& elevated in recent tertiary period. -

Different ranges of hills then formed Islands -
Thus species of the different colonies differ, genera the same -
? species of insects - in W. Aust. S. Aust. V. D. Land \& Sydney -

## [[7]]

Animalcules in Stomachs of Herbivorous Animals - M. M. Gruby \& Delafond
Ruminating Animals - have 4 species in the first \& 2nd stomachs. - The quantity is equal $1 / 5$ of whole weight of alimentary matter - In the 3rd \& 4th stomach they are dead \& digested - In the intestines fragments of carapaces are found -

The horse has seven species.
The dog - 2 species
The pig ——1 species.
The animalcules are born live \& survive in the acid liquid of the stomach- In the carnivorous animals much less abundant than in the herbivorous - which though they eat only vegetable food have their animal matter to digest. -
Comptes Rendus de Academie Dec. 11. 1843.
[[8]]
Minute Parasitic worms are found in the blood of living frogs (adult)

Annals of Nat. Hist. vol. 18.
Edentata allied by internal structure to birds \& reptiles - but more nearly to reptiles. -
Reptile Birds also allied to reptiles
? Mammalia and birds have both branched out of reptiles not one from the other.

In 15th. Century much trade between West Coast of Ireland \& Spain ? Spanish plants then introduced with ballast? -

Milk brandy in Siberia called Arakou
[[9]]
Verhandelingen, Nat. Gesch. \&c.
In Java. 85 Mammalia. 6 are Quadrumana.

Fossil Human Bones. acad. Scien. Phil. Oct. 6. 1846.
$D^{r}$. Dickenson exhibited bones of Megalonix Jeffersoni from a stratum of blue clay below the alluvial drift of Natchez: it abounds with bones \& teeth of Mastodon giganteum - In the same clay 2 feet below the above fossils of extinct animals were found a human "os innominatum" - Bone of a young man of 16 - corresponded in col. \& density with those of the Megalonix. (Ann. Nat. Hist. vol. 19, p. 214.)

Horticultural Soc. 1854
[Printed clipping:] "to seed. — and a specimen of Aegilopean wheat, to which so much interest attached.- The produce of the seeds furnished by M. Fabre (who, it will be
remembered, followed up the experiment of sowing the miserable grass Aegilops ovata year after year till it became wheat), raised in the garden this year, is in no respect different from the common hard wheat of the south of France."
[[10]]
At Bukit Tima in Singapore.
Lowest Temperature June 65—73
[Lowest Temperature] mean about 70
Highest [Temperature] 85? 88.
Capt ${ }^{n}$ R. C. Tytler collected at Barrackpore near Calcutta in 2 years-
127 land \& 53 water Birds, in all 180 species

Ann. Nat. Hist. May 54.
? how many of the land birds are found in the countries on both sides the Ganges.
of natural history, vol. 13, 2d series, no. 77 (May), pp. 365-376.
[[11]]
Tongue of Phyllornis Arach..//
[[12]]
Moths at Singapore.

1. Large white \& gray 4 tailed geometra.
2. Saturnia atlas $\widehat{\sigma}^{\lambda}$ \&
3. Large eyed dark noctua, at sugar Bukit Tima.
4. smaller eyed noctua, diag. yel. band. at tip. sugar.
5. Sphinx in house at light.
6. Noctua, bk, purple gloss, white abd. marg. yel. abd. Pulo ubim Malacca -
7. [Noctua] green \& bk. upper yel. \& bk under. House at light.
8. [Noctua] green \& whitish upper yel \& bk. und. Pulo ubim.

9 [Noctua] upper brown dotted with green, [yel \& bk. und.] at light.
10 Castria -
11. Noctua - very dark mottled - size of (4).

12 Geometra. Jungle Pulo ubim ashy yellowish
13 [Geometra. Jungle Pulo ubim] smaller allied.

14 Agarista? flying in Sunshine. Malacca
15 [Agarista? flying in sunshine] Jungle Malacca
16 [Agarista]? - day flies yellow \& black
17 [Agarista]? - like a Euploea bk. tipped with blue \& wh. spotted
18 Geometra? ashy blue, white veined orange body. Pulo ubim
19 Agarista? yellow bluish \& white.
[[13]]
20 Zyganidae? -
21 [Zyganidae]
22 [Zyganidae]
23- small bk. yel. band across uppers-
24. - smaller ? sex
$25 ?$
26 ?
27 ?
$28 ?$
29 Geometra. white blk. spotted - Pulo ubim.
30 [Geometra]? very delicate pale wings. Singapore.
31 [Geometra] - bright brick red. Pulo ubim.
32 [Geometra]
33 [Geometra] pale delicately striped. Pulo ubim
34 [Geometra] It. brown yellow margined. - Pulo ubim
35 [Geometra] green mottled
36 [Geometra] dk. green falcate wings
37. It. brown \& green. scollopped.

38 - pink \& white. Pulo ubim at light
[[14]]
39 - Pulo ubim - wings striped, yel. base-
40 Singapore corn. yel. \& ash
41 [to] 52 Obscure noctuae
53 Bombycidae
54 [Bombycidae]

55 [Bombycidae]
56 [Bombycidae]
57 noctuidae. Pulo ubim. com. pale greenish satiny ${ }^{\text {white }}$ [[15]]
58 obscure species
59 [obscure species]
60 [obscure species]
61 [obscure species]
62 [obscure species]
63 [obscure species]
64 [obscure species]
65 [obscure species]
66 [obscure species]
67 [obscure species]
68 [obscure species]
69 [obscure species]
70 [obscure species]
71 [obscure species]
72 [obscure species]
73 [obscure species]
74 [obscure species]
75 [obscure species]
76 [obscure species]
[[16]]
77
78
79 Feather moth
80
81 - Singapore -
82 Deilephila
83 noctua f pale green
84 yellowish <rim?> (59)

85 [yellowish]
86 noctua. small brown
87 Agarista? Malacca-
88 [Agarista] [Malacca]
89 [Agarista] Malacca
90 noctua? green. [Malacca]
91 Geom [Malacca]
92 [Geom] [Malacca]
93 Noct. [Malacca]
94 [Noctua] [Malacca]
115 Noctua-
sand. rufous ashy- dark cent. orange band.
116 noctua. largish bk ${ }^{\text {sh }}$.
[[17]]
95 - noctua small, red brown transverse striga
96 - Bombyx small - pale yellow, brown spot at tip
97. Tinca? Black uppers \& tip of lowers, orange ${ }^{\text {red }}$ -
98. Phalera? pure white downy

99 - dark uppers, orange marked lowers
100 - Phalera small obscure
101-Sesia?
102. [Sesia]
103. [Sesia]

104 Tinca?
105. - pure white

106 small long legs \& antennae
107 - do - ocellus on uppers
108 pearl white black spots \& marks-
109 - near (99) -
110 Bombyx- downy buff -
111 Macroglossis at flowers of Papaw
112 [Macroglossis] at do -

## 113. Agarista? like a Euploea

114. large white satiny waved
[[18]]
Teeth of Mammalia by - Prof. Owen.
Typical series occurs in the Hog.
[sketch]
M.
P.
C. I.
C. II
3214321321
II $=44$

Incisors. are determined by springing from the premaxillary bone in the upper jaw
Canines - spring from the maxillary bone close to the suture.
Premolarsies. are determined by the first set being shed.
Molars- by appearing in succession permanently.
When any of the above typical number of teeth are wanting, they are from the first in the series of premolars \& from the last of the Molars (P. 4 \& M. 1 being most constant) \& from the last also of the canines ${ }^{\text {incisors }}$ -

The Teeth in man by Owen's formula are these.
I. 1.2/1.2 C. 1/1 P. 3.4/3.4 M.1.2.3/1.2.3.. 32

The deficient teeth being I 3/3 \& P 1.2/1.2 [[19]]

Felidae I 3.3/3.3 C 1.1/1.1 P 3.3/2.2 M 1.1/1.1 = 30
Ursus - I 3.3/2.2 C 1.1/1.1 P 4.4/4.4 M 2.2/3.3 = 42
[[20]]
From, Pictet's Paleontology
Laws of geological development.

1. Species, limited Geolog. duration.
2. Contemporaneous spec $^{s}$. generally appear ${ }^{d}$. or disap ${ }^{d}$ together

3- Older, fauna, gtr. difference from recent
4. Recent faunas more diversified than anct.
5. Most perfect Animals recent.
6. Order of appearance, like order of development.
7. From birth to death of species genus or family, no interruption.
8. Faunas shew temp. has varied? -
9. Ancient species more widely distributed
10. Fossil animals same plan as living.

1. Undisputed. 2? generally. unimportant.
2. True, with specific exceptions
3. Doubtful, but does not affect develt. theory
4. True where a whole series can be traced often apparently false
5. Important. 7. very important, undisputed.
6. ?Because more sea \& therefore more equal temp.
7. Undisputed. Important.
[[21]]
\{Bucco capensis. Lin.
\{B. collaris. Lath.
\{Capito collaris. Temm.
Capito cayanensis. Viellot
[Vieillot]
Type of genus Bucco \&
family Bucconidae.
Puff birds. America
Type of genus Capito \&
Family Capitonidae.
Barbets, mostly Eastern
Sclater's monograph. Ann. Nat. Hist. May of 54

Singapore April 4th. 1856 (13)
Semnopithecus
Greyish black above, greyish beneath a line from throat to anus \& inside of thighs whitish, also armpits \& inside of [illeg.] whitish, tail, black greyish beneath; face black mouth \& eyes whitish - scarcely any crest.
Length body 20 in. tail 25 in
Callosities black anus pinkish white
Sciurus. April 1856 (14)
above mixed rufous \& black, beneath white yellow tinged, feet dusky - on back are 3 black stripes, from neck to rump widening on back \& obscurely continued along tail hairs of which divergent beneath -
[[22]]
[The heading of this page continues to the facing page]

Birds collected at Singapore, M[alacca \&c. by Alfred Wallace]
Burung hujan "Rain bird."

1. Cymbirhynchus macrorhynchus Gm. nothing else.

Bill clear sky blue above, below orange yellow with a narrow blue margin, feet bluish lead colour. iris emerald green, black powdered. varies to Blue.
2. Surniculus lugubris. Bon.?

Chawi. Mal. Mal.
3. Meiglyptes tristis.

Glatto torch.[?]
4. Lophocitta ardesiaca?

Si gering.[?]
5. Oriolus xanthonotus. Horsf.

Perling ryot. Shrike,
6. Harpactes rutilus? Bas[?]
7. Nyctiornis amicta. Swains.

Burung kachua
8. Psilopus Hayi Gr.

Tocong busi. Blacksmith
9. Irena puella, Horsf.

Quayang.
10. Venilia mentalis. (Bun.)

Glatta kapala kuning.
11. Orthotomus cineraceus?

Sitangup.
12 Megalaima versicolor. Gray.
M. mystacophanos.

- Cuckoo. Eyes dark, bill bk. feet dusky- nostrils round swollen.
gape yellowish. 2 small white feathers on nape.
${ }^{\lambda}$ Malacca. Eyes reddish brown. bill black, feet dusky greenish- eats ants.
Eyes dk olive, bill bk. ft dusky lead col. long chest.
bill reddish Eyes red. feet dusky $\begin{gathered}\lambda\end{gathered} q$ differ much.

Cassunda Kechil, Malay for Trogon.
iris orange, bill bk. at base horn colour. feet greenish olive.

Stomach wall large bk. "xylocopa"-
Eyes dull red ${ }^{\text {sh }}$. brown, bill bk. legs bright
salmon colour. \& bill reddish.
Bill \& ft. bk. iris blood red. nostrils concealed by frontal feathers \& covered with bristles. oval oblique in a cavity. feet broad, fissirostral.
skin \& feathers very soft \& delicate almost like Trogon. eats fruit.
redd ${ }^{\text {sh }}$. brown iris. (Woodpecker) os hyoides scarcely produced over head. very small, narrow tail, eyes reddish yellow, bill \& feet reddish dusky. insects.
${ }^{\lambda}$ bill dark lead, feet lead col.
$q$ bill do ft. greenish.

Tocong kapala mera
13 Brachypus melanocephalus, Gm.
Mirba kuning.

Eyes dark red brown. Eats fruit.
Bill \& feet bk. eyes dark blue. yellow, head blue bl. bk. $\overbrace{\&}^{\lambda} q$ eat fruit.
[[23]]
[The heading of this page continues from the previous page]
[Birds collected at Singapore, M]alacca \&c. by Alfred Wallace.
[sketch of bird's head] sides of mandibles \& skin of gape deep cobalt blue.
6 it edges ridge \& tip of mandibles bk. or horn colour.
Skin above eyes pale blue. iris dk. brown.
feet dusky lead colour.
mid. claw dilated within.
[sketch of bird's head] culmen black as far as a line from the nostrils, rest of bill 35 q a a blue shading with the black.

Bbare skin of gape \& round the eye a. a. a delicate violet blue, close round.
In eyelids rather flesh colr. feet very pale, blueish lead col.
iris deep reddish purple.

## 1. [sketch of bird's head and dorsal view]

1st quill very short 5 \& 6th longish equal.
4 - Length 11 in. dark ash colour, wings \& tail brownish, head black, erect crest of two feathers 4 in long - on each side of the neck a large patch of pure white forming a demicollar
a white spot above \& below hinder part of eye.
[sketch of bird's head] [sketch of talons] 2 outer [sketch of tail feather]
bill. much compressed. toes = tail rounded Lophocitta.
Hind toe longest tip of tail feathers
[[24]]
[sketch of bird's head]
14. small greyish shrike? (7 in)
legs shortish, mid. toe longest -
Bill dusky bk. lower in. pale feet pale lead. Eye olive.
ashy wings \& tail brownish, belly nearly white, tail coverts white.
a black stripe under eye \& over ears.
15. Zanclostomus tristis\} (Cuckoo).
[Zanclostomus] sumatranus\}
Bill green, feet lead. orbits deep red downy-scarlet
?? orbits deep yellow, abd. rufous.
16. Phoenicophoeus erythrognathus. Tem. Kado busar.
17. Kado kuchil mal.

Cuckoo, bill greenish orbits blue green. tail brown, black \& ashy tipped
18.
$\delta^{\lambda}$ do - bill yelsh.. orbits greenish tail obscurely barred.
19. Macronus ptilosus Jard. \&

Selby. Burung tana -
small, eyes dark ${ }^{\text {red, }}$, bill \& feet bk.
long white stemmed feather - back.
hops about near the ground in thickets, eats insects, coleoptera.
orbits blue anteriorly-curving creaking note \& several varied cries.-
20. Eurylaimus ochromalus, Raffl. Iris pale yellow, orbits bk. bill blue $2 / 3$ of margins

Tumptara kuchil.
21. Crypsirina leucoptera. Bon. from tip bk. upper mandible beyond the nostrils pea green, feet pale flesh col'. perches, eats fruit \& beetles \& ants - does not capture on wing. black crow like tail graduated -

## Kado gajah.

22. Calyptomena viridis. Raffl.
eats fruit
Burung patchat.
23. Mirba tando Brachypus vidua \&
24. Arachnothera chrysogenis,

Temm. - Klichap munchang panjang.
25. Iora typhia. Lin.

Pintan.
26. Prionochilus percussa. Tem.
small bk. cream col. spot on wings. bill \& ft. bk. feet pale brownish olive. bill bk. dilated margin of upper mand. yellow.
tongue short horny divided at end - orange red bill \& ft. bk. ${ }^{\text {sh }}$. lead cold.
27. Mirba

Dull olive brown bill, dusky. 7 in.
[[25]]
[sketch of bird's head] 8. bill strong compressed, no gape bristlesfeet scansorial, inner toe small united to mid. to 2nd joint- tail short even mid \& outer reversed toe = hind shortish. above brown, feathers greenish edged, beneath silky yel ${ }^{\text {sh }}$. white, throat brownish, yellow-edged. L. 6 in.
[sketch of bird's head] 16. It. green, crossed part red, hinder edge of nostril bk. round eyes, scarlet papillate skin. iris orange red-
20. + [sketch of bird's head] blue green black blue
orthotomus.
11. L. 4 in. olive beneath whitish, crown red brown, throat blackish. feet legs long slender hind toe \& claw much largest, claws of lat. toes very small.
[sketch of bird's head]
13 - L 6 in. olive yel. wings \& a band near end of tail black.
belly under tail coverts \& tip of tail pure yellow
head \& neck steely blue black. legs short.
hind $\&$ mid. toes $=2$ lat. toes $=$ weak bristles at gape . wings short $3,4, \& 5$ quills near = [sketch] tail broad rounded -
19. $41 / 2$ in. ${ }^{\mathrm{dk}}$ olive brown, crown rufous, tail blackish.
throat bk. feather of back with dilated white midribs \& very loose hairy plumes: tail broad rounded, feathers soft \& pointed \& decomposed at tip- wings short round 50

12th quills = [sketch]
feet large, hind claw large.
lower mand. weak, gape wide. 3-4 strong bristles.
[[26]]
28 Venilia puniceus. Bon. ft. greenish, bill bk.
Glatti gading ivory [gading is ivory in lower mand. \& bas ${ }^{\text {al[?] }}$ of suture of upper yellow. iris
Malay]
29. Halcyon pulchella. Gr.

Sikingking. bare[?]
30. Punai gading. Pigeon, above green, beneath creamy.

Bill bright yellow, feet dark red, under tail coverts coffee brown
wings blue, flanks dusky, crown \& throat blood red, chin bk.
breast with a rose cold. patch.
31. Picnonotus ochrocephalus ${ }^{\mathrm{Gm}}$.

Baru baru.
32. Poonai [crago] kainara.
33. $P_{\text {of }}$ (23).

Brachippus [Brachipus] vidua.
34. Lerax caerulescens. vig.

Sikap bilalang.

Thrush. bill \& feet bk.
fine loud note. dense plumage. very wary. feeds near the ground.

Pigeon - feet vermilion bill olive at base whitish at tip. iris yellow. iris buff with an outer rim white. Dusky, soft downy plumage bill \& feet dusky, Eyes dark.
Eyes dark bill \& feet black, lower mand. lead col. fruit in stomach. insects \& reptiles.

35 Harpactes temmincki. Sw. cassumba[?] busar.
36. Halcyon capensis L.

Sikingking busar.
37. Toucoocoo.

Bill \& feet bright red.
tip of bill blackish - Eyes dark purp eats fish.
Turtle dove, iris pale golden buff bill bk. feet purplish red - feeds on fruit trees -
38. Phyllornis sonnerati. Blyth.

## Burung daun.

39. Hemilophus mackloti. Wagt. Gr. Bill whitish, bk. at tip. feet lead col.

Glato kabu.
Ash cold. woodpecker
[[27]]
23. L. 5 in. black. $1^{\text {d }}$. \& $2^{\text {d }}$. wing covers cream col ${ }^{\text {d }}$. \& tip ${ }^{d}$. with bk. tail mod. rounded, feathers round ${ }^{d}$.

1st. quill very short, $4 \& 5$ th. longest.
legs short, hind \& mid. toe $=$. bill compressed
gape wide with a few bristles. [sketch of bird's head and bill]
25. L. 4 in. yellow green above, bright yel. below.
tail bk. wing black, yel. green edged, covers wh. tipped.
Legs moderate, hind toe longest.
bill moderate no bristles.
Q tail olive. iris white. Sarawak [sketch of bird's head and bill]

26- L. 3 in. dull steely blue above, yellow beneath a crimson spot on crown \& another on breast.
bill strong short no bristles. [sketch of bird's head and bill] too large
legs rather long - tail short
wings rather long to mid. of tail, 1 st. quill very short.
4. \& 5. longest. mid. \& hind toes $=$.
27. L. 6 in. olive brown above, yel ${ }^{\text {sh }}$ olive beneath.
tail long even, feathers narrow. wings short 4th \& 5th quills longest - legs shortish mid. toes longest - bill long weak.
[sketch of bird's head and bill] long \& strong bristles, from upper \& lower gape expand ${ }^{\text {ble }}$.
[sketch] Bill beneath very pale.
31. L. 9 in. Dusky olive- wings \& tail olive yellow
head pale yel ${ }^{\text {sh }}$ brown, hue across eyes \& from gape below ears bk. chin very white tip of feathers of breast pale.

## [[28]]

## carpenter bird

## Burung tocong

40. Caprimulgus
41. Meiglyptes rufinotus. Malh. Glati merah. Blythi.
42. 
43. 
44. Diceum.

Bill \& ft. dusky - flies much \& rapidly - stomach full of winged wh. ants
? new woodpecker, bill bk., feet dusky.
Brown, black banded throughout. eyes dark olive, eats white ants.

Dusky shine, bill bk, feet dusky iris dull red. wings olive green. throat pale, tail shorter \& feathers broader than (27).

L 5 in 1/4-flycatcher.
small shrike - Eyes olive purplish feeds on insects. beneath \& rump whitish, above dark. bill \& feet dusky. tail even, feathers narrow. [sketch] small warbler, up. mand. bk.

Titi lip.
45 orthotomus.
46. Klichup.
47.
48.
49.
50. Cypselus subfurcatus, Blyth. Layang layang
lower \& feet dusky lead. eyes bright red. small long legged. iris pale olive. feeds on insects. bill \& feet bk. (nectarinia?) white -
Diceum - Eyes dark. red. $\cap$ -
Shrike shor-billed thrush - white beneath bill bk. ft. pale Flycatcher, bill \& feet bk.
Swift, bill \& feet bk., strong feet \& claws, grasps like a Hawk!.
[[29]]
[sketches of a talon and head of Meiglyptes rufinotus] 42¹. [?]
33. Dusky olive ${ }^{\text {ashy }}$ above, feather pale edged. -
below pale olive, wings \& tail darker -
[sketch] a few strong bristles at gape.
legs short. tail moderate rounded.
feather slightly acuminate - wings short.
1st quill very short $4 \& 5$ longest.

## Cymbirhynchus macrorhynchus.

1. nest suspended from a branch covered with palm fibre, dead leaves, roots \& small orchideae, which hang down \& make the whole appear a mass of dead \& decayed matter., - opening at the side with a slightly projecting roof or front house, formed of fine grass intertwined with which also the nest is lined.
```
above olive brown, head ashy. - }6\mathrm{ in.
```

[[30]]

## Pipit pinang -

51. munia punctulata.
52. Lamprotornis cantor Gm.

## Perling

53 Anthreptes lepida.\}
54. do.\}
55. Saxicola?

Lalage orientalis?

Finch. eyes red ${ }^{\text {sh }}$ brown, lower mand. \& feet lead colour.

Glossy bill \& ft. bk. eyes red.
(Nectarinia) Bill bk. ft olive, iris red.
Nectarinia? young. Bill bk ${ }^{\text {sh }}$. feet olive. Eyes dk.
Black \& white, bill \& feet black, iris olive, eats insects. $61 / 2$ in tail white tipped, \& quills
56.
57. same as 68.
58.

Thrush. bill bk. ft. dusky. iris red ${ }^{\text {sh }}$. eats fruit. - ? same as (42)
feet very pale, bill dusky.
Eyes olive brown, food fruit \& insects.
small white beneath rufous olive above, strong bristles from above gape, upr mand black ${ }^{\text {sh }}$, lower \& feet lead col ${ }^{\text {d }}$, eyes olive brown.
59 Hemilophus javensis. Horsf. iris pale yellow.
Glatto busar kapala mera.
60. Trichophorus gularis.

Horsf.
61. Megalaima chrysopogon.

Tem.
Glatto Tocor kapala kuning
[[31]]
51. nest of grass \& lycopodiums - the mouth narrowed of loose grass not so delicately constructed as that of 72 - Eggs white, elongate (2). nest always placed on an Areca palm between the spathe \& the stem. common near Malacca.
[55] forehead \& eyebrows white — beneath entirely white, outer tail feathers broadly wh.
tipped -
[58] tail rufous, head blackish -
[60] Sarawak.
[[32]]
Layang layang utan
62. Macropteryx comatus. Temm - in jungle. Malacca, Aug. 1854.
63. Muscipeta?

Rajah anjas.

64 Tiga rafflesii. Vig.

ㅇ. Bill bk. pale at tip \& at base below, feet lead col. eyes brown.
${ }^{\lambda}$ bill lead blue orbits dilated, blue, iris dark purple iris red ${ }^{\text {sh }}$. brown, lower mand. pale lead, upr . bk. feet greenish
65. Burung tana
66. Dicaeum Cinnyris phoenicotis, Juv.
67. Alcippe pharei. Blyth.
68. \& 57 Timalia?
69.

70

Eyes pale brown, bill dusky lower mand. \& tip palelegs very pale.
bill hooked, a few short bristles legs long \& strong very small bill dusky yel ${ }^{\text {sh }}$.
feet yellow olive. iris olive - insects
iris red, bill bk. feet lead colr.- a small crest.
bill dusky lead. feet pale.
legs long \& strong.
bill dark, feet pale, iris milk white. eats fruit. 6 3/4.
lower mand \& feet pale iris brown red.
eats insects- spotted head, near ground in jungle.
[68] rufous olive, pale rufous beneath, throat \& breast pale -
[69] small bill - ashy with a very slight olive tint pale yel ${ }^{\text {sh }}$. ash beneath- quite distinct.
[70] front \& crown rufous, black spotted nape bk.
above olive brown beneath whitish
throat very faintly striated.
[[34]]
71. Ceyx.
sikingking rimban.
72. Munia.

Pipit tuli
73. Eurylaimus
sumatranus.
Tumpharia rimban
74. Perling.
75. Cuculus? [illeg.]
76. Meiglyptes brunneus.
bill \& feet red. eats insects grasshoppers \&c.

Finch. lower mand. \& feet dark lead colr.
feet pale bill blue ben ${ }^{\text {th }}$.
above blue at base bk. in mid \& green at tip. - margins bk. yel. [illeg.] eat insects \& fruit.
Parroquet. iris yel. upr. mand. of male red, lower pale legs dusky olive.
bill yel ${ }^{\text {sh }}$. at base bk. at tip, feet \& orbits yellow, iris purp.
lower mand. pale. feet olive green.
Eyton.
77. 124. Picnonotus bill dusky feet yellowish pale.
flavescens. ? Blyth. iris ashy. small.
78.

79
iris red ${ }^{\text {sh }}$. brown bill dusky
feet pale yel ${ }^{\text {sh }}$. eats fruit \& insects.
bill dusky, lower mand pale
feet dusky, iris dusky white.
exactly like (69) but in the longer \& stronger bill. (eats insects) \& like 27 except the shorter \& broader tail feathers $\& \&$ the want of the
[[35]]
72 nest built in a fork, often of Bamboo formed of grass, leaves, lycopodium \&c. bottle shaped in another nest \& formed of an exceedingly fine hair like grass disposed spirally, inside lined with the same. eggs white - 4-5 or 6 . goes bird goes in small flocks, about bushes \& keeps near the ground -
[78] short strong bill [sketch] olive tail \& wings
rufous olive beneath dusky yellow throat pale ashy - 7 3/4 in.
[79] rufous tinge on the wings \& tail.
[[36]]

80
81. Ixidia cyaniventris. Blyth.

Mirba litsang.
82. Myiagra manadensis
(Quoy \& Gai.) [illeg.] Burung
mila.
83. Cinnyris phoenicotis.

84 Caprimulgus.
85 Phyllornis.
bill \& feet dusky, iris olive brown, eats fruit. 8 1/3 in. bill bk. feet dark lead. iris purplish olive, eats fruit. delicate bird, thin skin \& skull. - đ \& $q$ alike. bill blue lead tip bk. iris dark purple, legs dark lead.

Bill bk. feet yellow ${ }^{\text {sh }}$. olive. iris red eats fruit \& insects (ants \&c).
tongue horny at tip flat bifid.
flies high, cry 'tit-a-bon" its malay name.
Eyes dark, eats fruit.
\& green with pale blue gape stripe.

86 Harpactes.
35
87.
88.
eats hard insects iris dark brown, bill \& orbits cobalt blue. tip \& margins of mand. bk.
feet dusky, bill bk, lower mand.
dusky at base. walks on the ground -
a very soft low musical note often repeated -
iris olive brown, feeds on insects.
bill yel. in adult male-dusky above at base, hops
about low bushes
a loud musical note. 6 in.
[[37]]
80 - Olive above, dusky white beneath, throat \& breast striated by margins of feathers being dusky tail long even dark above, ashy beneath. [sketch] bill long.
[81] hops about low trees -
[88] rufous ash, beneath cream col. wings \& tail rufous, bill depressed at sides with elevated keel \& rigid long bristles at gape [[38]]
89.
very near (48) \& 99.
90.
iris pale ashy, bill \& feet dusky lead, on low trees, feeds on fruit \& insects- a loud musical note a rapidly repeated high note.
iris dark, bill bk ${ }^{\text {sh }}$. feet olive on trees, eats insects ${ }^{\text {\& fruits }}$ a chirping or creaking note -
91. Passer montana?

Pipit gunting.
92. Kekek.
about houses eats rice.

Hornbill, white bill, red brown iris feet bk. $\widehat{\Omega}$
tongue short flat very thin horny at end -

92a
young ${ }^{\lambda}$.
do. black bill, feet blackish iris purplish olive - $q$
small white bill, iris olive.
lower orbits pale olive yel.
93. Bubo orientalis. Horsf. Bill bk.

Lang kuching.
94. Halcyon gularis? Kuhl.
95. Arachnothera?
96. Timalia. Brachypteryx leucophrys
iris dark bill dusky feet olive yellow, liquid in stomach \& a spider. - tongue long rolled in \& [sketch] divided at end. iris olive, bill black, pale at base below, legs pale. - near the ground, eats insects $-43 / 4$.
[[39]]
[89] $51 / 3$ in -
[96] Brachypteryx nigrocapitatus (Eyton). at Singapore Ap./46.
walks on the ground \& hops on low dead trees \& logs \&c. very stealthily - has a low chirping note which sounds as if at a great distance. - 3-4 go together. .
[[40]]
97 Timalia nigricollis. Temm. iris dark red bill \& feet black, lower mand. lead col.

## Burung tana.

98. 
99. 
100. 
101. Cacomantis fasciolatus.

Mull. (Cuckoo) Teop api
102. Dicaeum.
103. Diceum cruentatum. Lin. bill \& feet bk., iris olive

Titi lip.
104.

Seanus.[?]
105. Hirundo javanica. Sparrm.

Layang layang.
[[41]]
[98] bill strong compressed, hooked. crown rufous, nape black, tail rufous at base, beneath white throat \& breast faintly striated -
[99] rufous olive, crown ashy, beneath dusky, belly wh.
bill small compressed. near 89 \& 70 .
5 in.
[[42]]
106.
107. Cudidi.
108. P. borneensis Cab.
iris red, bill black, feet dusky olive. eats fruit.
Wagtail, bill \& feet dusky eats insects -
trees - jungle
bill pale, dusky at base, feet lead, nostrils with a valve.
109. Halcyon concreta. iris bill dark yellow culmen broadly black legs \& claws
Temm. Sikingking rimban
110. Edolius

Chawi.
111.

112-137
Punai crocheff?]

113 Arachnothera.
130
gamboge yellow.
? eyes dark brown, bill \& feet bk. eats insects.
(Humbug) very near 106 \& 27 iris orange red, bill blackish.
feet reddish olive. dusky olive (7 in)
feather of back paler margined.
Pigeon, iris narrow orange, orbits base pea green, bill pale yel. green, red at base including nostrils, feet purple red iris dark olive.
bill bk. feet lead col. spiders in stomach. os hyoides prolonged almost as in Humerus.
tongue large extensible inrolled, ending in a fine bifid point.
[[43]]
106. remarkably like $(69) \&(79)$ but distinct by form $\&$ colour of bill \& col. of eyes. bill most like $\underline{69}$ wings much olive margined.
[[44]]
114.
iris red, ft. dark, bill dark lead
nest of dead leaves loosely woven together
Eggs two white oval pointed -
has the os hyoides of
115.

Glatto kuchil
116. Brachiurus granatina. Tem.
117. Malacopteron cinereum. Eyton.
118.
119. Hemicircus concretus. Reinw ${ }^{t}$. bill bk. ft dusky - Mt Ophir 120.
121.
122. Enicurus

Owl. bill \& feet nearly white. eyes reddish brown - Mt Ophir
Mt. Ophir. Bill \& ft. bk. eyes dark. insects. Thrush, iris red, bill bk. ft. dusky. 7 1/2 in. fruit. Mt Ophir. 2000 feet elevation

Flycatcher bill bk. feet dark. Mt Ophir Thrush. (brown bk \& wh) bill bk. feet pale. insects - Mt Ophir
iris dark, purple, bill bk. feet pale insects, water beetles. M. Ophir
[[45]]
[114] rufous, wings brighter, beneath dark ash, belly pale. in a bush \& slightly lined with grass. 4 1/2 in
a woodpecker, tongue retractile \& much barbed.
[[46]]
123. iris olive, bill bk. feet pale. insects. Mt Ophir.
124. ${ }^{77}$ same. iris olive. insects, bill lead col. feet dusky pale.

125 flycatcher. iris olive, bill \& ft. pale lead col.
126.
iris olive, bill \& feet pale.
127. Phyllornis icterocephala. Tem. insects \& fruit bill bk. feet lead col.
128.

129 bill \& feet bk. insects
130. Arachnothera. bill \& feet bk., lower mand pale.
131. Arachnothera. bill $\mathrm{bk}^{\text {sh }}$. above, below \& feet dusky iris dark, juice \& spider at Palm blossoms \& incision.
[[47]]
[123] rufous above with white striae, head black with white stripes, front \& cheeks pale rufous beneath whitish, scollopped with black in the breast - bill compressed -
[125] dusky olive above, beneath dusky rufous belly pale, wings \& tail rufous.
[126] olive yellow, throat breast \& belly dusky white. 4 in.
bill compressed, feet moderate strong - tail mod. narrow.
[129] olive brown, beneath dusky yellow. feet weak. tail moderate, narrow. [sketch] 6 1/2 in. Ixodinoe?
[130] Arachnothera. - combines structure of Hummers \& Creepers - bill \& tongue of hummer long \& strong legs of a percher \& slate wings of a creeper.
[131] Its food is like hummers minute insects obtained from flowers, leaves, or flowing sap. Its long bill is in the way of it attempts to feed while clamping by its feet. It therefore hovers in the air like a hummer
[[48]]
132. Harpactes diardi. Boie. orbits violet flesh col.
133. H. flagrans? Mull? bill as in $\underline{H}$. rutilus
134. Shrike -
135. iris pale brown. bill \& feet pale yellowish.
136. Megalaima mystacophanos. Tem. Bill bk. feet greenish
137. ${ }^{112}$ Vinago aromatica. Cuv. iris very narrow, orange.
138. Hemicircus? n.s. - Picus sp.? iris olive brown, bill \& feet dusky.

139 Alcedo biru. Horsf. Bill bk, red at base feet vermillion. iris dark. Mt Ophir.
140. Psittacula galgulus. Kuhl.
141. Megalaima trimaculata. Gr.
[[49]]
[132] bill as in Temmincki.
though not endowed with wings adapted to such purpose - It does clumsily \& with difficulty what the hummer does with ease \& elegance. We must therefore conclude either that the Arachnothera has habits for which its organization is not specially adapted, or that the ${ }^{\text {peculiar }}$ organization of the hummer has not special reference to its habits, each simply obtain their food in the best way they can, \& this way is the same, in both though the structure can scarcely be more widely different. [[50]]
142 - Acanthylis giganteus. Tem. Singapore, flying. after rain at Bukit Timah.
143. Gracula Javanensis. Osbeck. Singapore \& Malacca

144 Hemilophus validus. Reinw ${ }^{t}$. Singapore
145. Ixos analis. Horsf., Malacca. com. (egg).

Singapore very common, near Town \& about houses in the country.
146. Pericrocotus flammeus. igneus? Blyth. eyes bill \& ft bk. Sing.
147. Pericrocotus miniatus. Tem. Sing.
148. Vinago fulvicollis? [illeg.]? Korthalsi? Wag. Capellei? Singapore
above bluish olive, beneath yelsh. ash, wings slate blue covers yel. margined, under tail coverts pale coffee, breast rich or ange ochre, bill pale greenish feet yel.
149. Hydrocissa intermedia. Blyth. wants the white line over eye- tail all white except two mid. feathers. -

Eyelids bk. face \& chin white skin, Eyes red brown round eyes in front skin bluish - legs \& feet dusky lead col.
150. Hawk, iris bright yellow
bill bk. cere dusky, legs yellow. Mt. Ophir.
[[51]]
151. Owl. Iris dark brown, bill \& feet yellow. Singapore.
152. Dicrourus? entirely french gray Cheeks \& ears white.
153. Miltava? M. velata- Malacca
strong billed flycatcher, ashy blue, forehead \& throat bk. belly paler, breast deep coffee brown.
154. Melanochlora flavocristata. Lafr. Chenu 4.103.
155. Graucalus sp. - Malacca. bought. ashy, beneath banded with whitish.
156. Pitta elegans. Tem. Malacca. (bt.)
157. Eupetes macrocerus. Tem. Mal.
158. Tiga tridactyla. Fem. Gr. (bought) Mal. $\begin{gathered}\text { § } \& \text {. }\end{gathered}$
159. Cryptonix coronata. Tem. $\delta^{\lambda} \&{ }^{\circ}\left(b^{t}.\right)$
160. Coturnix small Malacca Quail. throat bk. head white spotted.
161. Hemilophus mulleri. Bon ${ }^{t}$. ?distinct sp.
upwards of 40 are Java sp.
Scolopax stenura. Malacca
[[52]]
Birds collected at Singapore \& Malacca

| Ticket no. | Dupl. | Private | No. | Dupl. | Pr. | No. | Dupl. | Pr. |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | 2 | 1 | 19 | 4 | 1 | 38 | 4 | 1 |
| 2 | 3 | 1 | 20 | 2 | 1 | 39 | 1 | 1 |
| 3 | 3 | 1 | 21 | 2 | 1 | 40 | 0 | 1 |
| 4 | 2 | 1 | 22 | 13 | 1 | 41 | 3 | 2 |
| 5 | 5 | 2 | 23.33 | 2 | 1 | 42 | 0 | 1 |
| 6 | 0 | 1 | 24 | 1 | 1 | 43 | 1 | 1 |
| 7 | 4 | 1 | 25 | 2 | 1 | $43^{4}$ | 0 | 1 |
| 8 | 3 | 1 | 26 | 3 | 1 | 45 | 0 | 1 |
| 9 | 7 | 1 | 27 | 1 | 1 | 46 | 0 | 1 |
| 10 | 1 | 1 | 28 | 2 | 1 | 47.103 | 2 | 1 |
| 11 | 2 | 1 | 29 | 0 | 1 | 48 | 0 | 1 |
| 12 | 10 | 1 | 30 | 0 | 1 | 49 | 1 | 1 |
| 13 | 2 | 1 | 31 | 0 | 1 | 50 | 3 | 1 |
| 14 | 0 | 1 | 32 | 1 | 1 | 51 | 1 | 1 |
| 15 | 3 | 1 | 34 | 2 | 1 | 52 | 0 | 1 |
| 16 | 3 | 1 | 35.86. | - | - | 53 | 2 | 1 |
| 17 | 0 | 1 | 36 | 2 | 1 | 54 | $3^{4}$ | 1 |
| 18 | 1 | 1 | 37 | 1 | 1 | 55 | 0 | 1 |
|  | 51 | 19 |  | 38 | 17 |  | 22 | 19 |

[[53]]
June to September 1854.

| no. | Dup. | Pr. | no. | Dup. | Pr. | No. | Dupl. | Pr. |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 56 | 0 | 1 | 74 | 4 | 1 | 92 | 4 | 2 |
| 57.68 | 0 | 1 | 75 | 0 | 1 | 93 | 0 | 1 |
| 58 | $2^{3}$ | 1 | 76 | 1 | 1 | 94 | 0 | 1 |
| 59 | 0 | 2 | 77.124 | 1 | 1 | 95 | $4^{2}$ | 1 |
| 60 | 2 | 1 | 78 | 1 | 1 | 96 | 2 | 1 |
| 61 | 0 | 1 | 79 | $\theta^{1}$ | 1 | 97 | 0 | 1 |
| 62 | 0 | 1 | 80 | 1 | 1 | 98 | 1 | 1 |
| 63 | 1 | 1 | 81 | 2 | 1 | 99 | 0 | 1 |


| 64 | 0 | 1 | 82 | 1 | 1 | 100 | 1 | 1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 65 |  |  | 83 | 0 | 1 | 101 | 0 | 1 |
| 66 | 0 | 1 | 84 | 2 | 1 | 102 | 0 | 1 |
| 67 | 0 | 1 | 85 | 0 | 2 | 103.47. | - | - |
| $68 \& 57$ | 2 | 1 | 86.35 | 1 | 2 | 104 | 2 | 1 |
| 69 | 0 | 1 | 87 | 0 | 1 | 105 | 1 | 1 |
| 70 | 0 | 1 | 88 | 3 | $3^{1}$ | 106 | $\theta^{1}$ | 1 |
| 71 | 0 | 1 | 89 | $\theta^{1}$ | 1 | 107 | 0 | 1 |
| 72 | 1 | 1 | 90 | 1 | 1 | 108 | 0 | 1 |
| 73 | 0 | 1 | 91 | 0 | 1 | 109 | 0 | 1 |
|  | $9^{8}$ | 17 |  | 20 | 20 |  | 14 | 18 |

[[54]]

| No. | Dupl. | Pr. | no. | Du | Pr. | no. | Dup!. | Pr. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $p$. |  |  |  |  |
| 110 | 2 | $4^{2}$ | 128 | 0 | 1 | 146 | 0 | 1 |
| 111 | 0 | 1 | 129 | 0 | 1 | 147 | 0 | 1 |
| 112. ${ }^{137}$ | 0 | 1 | 130 |  |  | 148 | 0 | 1 |
| 113. ${ }^{130}$ | 0 | 1 | 131 | 1 | 1 | 149 | 0 | 1 |
| 114 | 0 | 1 | 132 | 0 | 1 | 150 | 0 | 1 |
| 115 | 2 | 1 | 133 | 0 | 1 | 151 | 0 | 1 |
| 116 | 0 | 1 | 134 | 0 | 1 | 152 | 0 | 1 |
| 117 | 0 | 1 | 135 |  |  | 153 | 0 | 1 |
| 118 | 0 | 1 | 136 | 3 | 1 | 154 | 0 | 1 |
| 119 | 0 | 2 | 137 |  |  | 155 | 0 | 1 |
| 120 | 1 | 1 | 138 | 0 | 1 | 156 | 0 | 1 |
| 121 | 0 | 1 | 139 | 0 | 1 | 157 | 1 | 1 |
| 122 | 0 | 1 | 140 | 0 | 1 | 158 | 0 | 2 |
| 123 | 0 | 1 | 141 | 0 | 2 | 159 | 2 | 0 |
| 124 | - | - | 142 | 0 | 1 | 160 | 0 | 1 |
| 125 | 0 | 1 | 143 | 2 | 1 | 161 | 0 | 1 |
| 126 | 0 | 1 | 144 | 1 | 1 | 162 |  |  |

$169^{70}$ Dup.

151 species.

|  |  |
| :--- | :--- |
| 3 | 16 |
| $330^{1}$ Bird |  |
|  |  |

[[55]]
Bird collected at Malacca \& Singapore

Picidoe 14 sp. 13
Meiglyptes tristis. (3)
M. brunneus. (76)

Tiga tridactyla. (158)
T. rafflesii (64)

Venilia puniceus (28)
V. mentalis (10)

Hemicercus concretus (119)
Hemilophus mackloti (39)
H. mulleri. Bp. (161) —? no
H. Javensis (59)
H. validus (144)
? Meiglyptes rufinotus. Malh. (41)
Sasia abnormis. (115)
Hemicercus. n.s.? (138.)

Desiderata
Malayan Birds.
2 sharp tailed pigeons
Treron oxyura. Reinw.
$\checkmark$ Korthalsi Bp.
Butreron capellei. Tem.
Treron curvirostra. Gm.
[Treron] olax. Tem.
Psittaci - all
Corvus sp.
Hornbills rare
Bee eater
Eurystomus
Jungle fowl; Gallus
Jungle fowl green of Borneo \&
Lombock.
[[56]]
40 species of Thrush like small birds.
27. 42. 56. 69. 78. 79. 106.111. are very closely allied obscure olive cold. species of Ixodinoe.
13. 19, 23, 58, 60, 65, 67, 68, 70. 77, 80, 81, 87. 88

89, 90, 96, 97, 98, 99, 108, 114, 117, 121, 123, 126
128. 129, 135, 145, 146, 147, all thrushes or Maluridae - (32) species -

In all 151 species $+14=165 \mathrm{sp}$.

6 pigeons 9 Pigeons \& Raptores

## 142 species of Passeres.

in two months collecting - 7 purchased leaving 135 actually collected.
Collection sent to Mr Stevens. Oct. 1854
170 Duplicate. in boxes \& loose, in large tin box
161 Private collection - in boxes marked private
also the Owls \& other birds loose in the small tin box wooden box \& in the case with the insects $\&$ the unique Hornbill.
A pair of the others \& all the other loose birds in the wooden box with them.
[[57]]
Kingfishers
Halcyon pulchella. Gr.
Ceyx
Halcyon gularis. Kuhl
H— concreta Tem.
Alcedo biru. Horsf.
Halcyon capensis. L.
? Alcyone solitaria (Tem.) Mal. (bought)
Halcyon leucocephala - H. atricapillus -\} Borneo
Ceyx - sp. - Borneo
Eggs. No. 51 - 2
No. 40 - $\quad 1$
No. 114 - 2
[No.] 145-2
$[$ No. $] 73-\frac{7}{\underline{14}}$
[[58]]
Notes on Coleoptera, Malacca \& Singapore.
Cicindelidae \& Carabidae.
535. Sar.
$\checkmark$ 41. Cicindela Aurulenta - common, purplish copper

6 yellow spots. Roads \&c. Singapore
42. C. myrrha Thomp.
43. C. fuliginosa. Dej.
51. C. acumimata. Dej.
$\checkmark 44$. Megalonema elegans. 167 Sar.

45 Therates dimidiata Dej.
good
683. T. nitida Tat ${ }^{m}$.
[sketch] T. Payeni?

50 Colliuris.
584 [Colliuris].
61 [Colliuris] arnoldi?
62. [Colliuris]

225 [Colliuris]
[[59]]
684. Colliuris tenuicollis, Tat. (514 Sar).
good. best 46. Catascopus
(wai[?]).
47. C. nitidulus.
$\checkmark$ 687. C. facialis? (7. Sar)
686. C.
very small bronzy bk. [sketch] dots white.
small bk ${ }^{\text {sh }}$. [sketch] marks cream white small pale bronze [sketch] marks white, finely punctured Dark velvety green blue changeable.
[sketch] spots brighter green..
rare, legs pale yel ${ }^{\text {sh }}$.
elytra purple shoulders \& apex yel. brown.
larger, legs bk. thighs only pale inside.
Elytra purple black, shoulders only yellow brown. M. Ophir purple black, legs all pale, mouth abd ${ }^{n}$. basal \& central part of Elytra, pitchy testaceous, elytra tubercled at base rather coarsely punctured- small -
Blue, small, thighs \& hinder tarsi reddish -
[Blue, small] legs pale red, anterior edge of thighs dusky.
[Blue] larger, legs pale thighs bk. pale at base.
greenish black, larger, legs pitchy red, anterior tibiae \& tarsi \& post. tibiae black.
greenish bk. large, end of elytra \& legs pitchy red, tibiae blueish.
large neck very long, transversely rugose dark greenish bk. tip of elytra \& ${ }^{\text {all }}$ thighs pitchy, rest of legs bk. except half tibiae \& tarsi of hind legs which are very pale.

Thorax green. [sketch] [sketch] brillian/?] coppery. tip of Elytra. legs bk. 588 Sar.

Thorax shorter [sketch] golden green punctate striate larger [sketch] very brilliant. elytra near suture simply striate.
very like but broader, more blueish, elytra punctured near suture
good. 63 Pericallus n.s.
$\checkmark$ 48. P. cicindeloides? n.s. 169 Sar? good.
$\checkmark 49$ Lebia sp.
685. Pericallus?
$\checkmark 94$ (Dromius, 4 spilata,
M.Leay. 79 Sar.
$\checkmark 122$ Lebia. 696 Sar.
567 Demetrias?
495
643.
644. Pericallus?
653.
[[60]]
best. 430 Sar.
$\checkmark$ 226. Thyreoptera.
644 Sar.
$`$ 277. T. ater. Castelnau. entirely blackish brown.
858 Sar - has the striae much deeper \& the elytra more sloped off behind.
292 T. (var. Tatum.)?
281
280 Pericallus?
689. Chlaenius?
$\checkmark$ 690. Helobia? Orthogonius 170 Sar?
282.

693
691-
692-
brown, 12 yel. spots
disposed in 4 triangles :
jet black, smaller.
like (292) but thorax broader behind.
[sketch] dull black [sketch]
dull coppery yel. margined ~
[sketch] legs \& antennae yellow.
[sketch] [sketch] pale rufous shiny.
[sketch] same form pitchy brown
smaller than 692 \& all bk.
[sketch] small dark green, 4 round red spots.
smaller, silky green [sketch] striated spots yellow.
small [sketch] dark green, marks yel.
Small [sketch] [sketch] blue, striate, 4 spots yellow.
[sketch] Black rufous spots.
[sketch] flat elytra striate.
spots as in last. [sketch] more common thorax broader.
[sketch] [sketch] elytra steel blue, rest red.
smaller \& entirely steel blue.
[sketch] entirely bronze bk, legs pale. [sketch] pulictate striate, basal joints of ant. red.
[sketch] bronzy green -
[sketch] [sketch] pale brownish pubescent.
same form little smaller pitchy bk \& pubescent.
[sketch] [sketch] narrow bk, brown patch at end of elytra.
$` 662$ [two sketches]
? near Lebia.
1177 Sar.
[sketch] [sketch] pitchy brown ?Geodephaga Physodera eschlotzii. thorax much dilated laterally, elytra truncate, brilliant copper \& purple.
[sketch]
Hexagonia Kirby. Chenu, p. 79.
[[61]]
688. Pericallus? depressed small golden green.
$\checkmark$ 689. Chilenius? Black, with 2 yel. spots near apex of elytra. Head \& thorax green rugose legs \& antennae pale.
629. Tricondyla.

44 species.
732 Black [sketch] [sketch] smooth striate
759. mormolyae phyllodes. under boleti.

45 species
orthogonius sp. Singapore Ap. 1856.
[sketch] pitchy testaceous, head \& ant ${ }^{\text {ae }}$. black, thorax tibiae \& tarsi pitchy black, thorax dilated smooth
elytra very smooth shiny striate, striae finely punctured. - light at night, flies.

## Orthogonius sp.

[sketch] Testaceous, head tibiae \& tarsi \& ant ${ }^{\text {ae }}$ black as well as a middle stripe on thorax \& base of suture

Elytra punctate striate, striae pitchy in leaf in jungle 4815 Cicindelidae, 33 Carabidae.
17 at Sarawak.
30
[[62]]
Longicorns.
28. Astathes terminata. Black, $1 / 3$ tip of elytra yel ${ }^{\text {lh }}$. brown, rest deep purple, antennae

Pasc. [sketch] yel. basal joint bk. tip dusky. Sing.
218. A.

29 A. [sketch]

702 A. [sketch] 35 Sar.

703 A. [sketch]
371. A. [sketch]

Black 1/2 elytra at tip reddish, rest deep violet, antennae yellow, base pitchy, tip dusky. smaller. Sing.

Black. head, thorax, elytra antennae \& fore legs, testaceous. tips of elytra \& hind leg purplish bk. Sing. Testaceous, thorax darker, body beneath dark pitchy, abd $^{\mathrm{n}}$. yell ${ }^{\text {sh }}$. 1/2 elytra at base bright indigo blue. Malacca (3)

Black, Elytra antennae \& tarsi rufous, base and tip of elytra blue bk. Mt. Ophir top. (1)
Body and abdomen bk, head thorax legs antennae \& elytra testaceous. Sing. (1)
300. Genus near Astathes. ${ }^{\text {near callia. Antennae longer than body, gradually slender to end, }}$ thorax not tubercled tip of elytra with a minute spine, eyes notched not divided.
sp. [sketch] Black clothed with fine ashy down dense legs \& tips of elytra testaceous. [sketch]
elytrate punctate on sides at base.
only one of above at Borneo. June 55.
Astathes.
sp. [illeg] 28. purpurea Pasc.
closely allied. Ap. 56.
Black, ant. \& tarsi pale, breast red, elytra all purple black. wings yellowishbasal jt. of ant. with a black line above.
[[63]]
good
13.

321 Sar
[sketch] Entelopes glauca.
N.G. Antennae shorter than body..

Eyes not divided, elytra spined at tip - body broad \& thick. Brick red, 2 spots on head bk. 6 on elytra, violet blue, antennae \& legs yel ${ }^{\text {sh }}$.
var. at Sar without the 2 spots on head.
14. E. ionoptera. Rufous, head bk. elytra deep blue tips of antennae dusky.
both at Sarawak 941 Sar \& a variety with the head \& thorax rufous.
Glenea (Colobothea?).
33. (good) Chalybea? [sketch] dark violet blue [sketch] spots white Sing.

37 G.
258. G.
259. G. [sketch]
698. G. [sketch]
691. G.? var 37. Black, violet tinged [sketch] spots white Sing rich violet blue [sketch] spots white Sing. purplish bk. [sketch] spots white Sing.

Purple black, base of elytra brassy tip violet - hind legs red $^{\text {sh }}$. tips of thighs \& base of tibiae bk. Mt Ophir Malacca broader than 37. marks the same but larger basal marks [sketch] (691)
[basal marks] [sketch] (37)
Astathes. Black, elytra purple black, antae. white all but 2 basal joints, wings black- small.
[[64]]
262 Glenea lineaticollis. Dej. [sketch]
Black, white marked beneath, a broad central line on head \& thorax yel. Elytra coffee brown, an obscure yel ${ }^{\text {sh }}$. lat. line; tip bk $^{\text {sh }}$. with 2 white spots.
legs yellow, Antennae bk. white tipped. Sing.
73. G. strigata. [sketch] Black, central fine blue line on thorax \& suture, lat. blue line on elytra \& intermediate shorter one, tips \& a spot near, blue. Beneath bluish white.

711 Sar agrees but has the elytra brown \& lines faint.
368. G. [sketch] Black. lines [sketch] suture \& tip ashy blue.
legs \& antennae pale, basal jt. bk.
330. G. [sketch] Brown bk. [sketch] lines
near G. versata, Newman. $\quad$ suture \& tip yel. white, legs yel ${ }^{\text {sh } . ~ a n t e n n a e ~ p a l e ~ b k . ~ e n d ~ w h i t e . ~}$
331. G. [sketch] Lines as in last but antennae bk.

2 penult. joints white - mid. line of elytra longer.
358. G. [sketch] slender, antennae long as in last central stripe of elytra broad ashy reaching almost to the tip..
555 G. 339 Sar. Brown bk. [sketch] lines white beneath \& legs clothed with a [sketch] dense white covering.
307. G. - [sketch] Brown bk. [sketch] dots \& lines wh. antennae bk. legs pitchy.
333. Glenea. sp. [sketch] Black, 8 round spots \& a lat. line from shoulder to mid. of elytra white
3 first \& 7 \& 8 joints of antennae whitish.
707. G. [sketch]
55. G. [sketch]
75. G. [sketch]
264. G. .. 838 Sar near.

332 G. $\frac{712 \text { Sar. }}{}$
[sketch]
77. G. ${ }^{340 \text { Sar like last, but thorax all bk. buff of elytra to middle, and spots a }}$ little farther from tips.
273. G. allied, but head \& thorax black. rather more slender.
at Sar. not numbered \& 1009 very near but larger \& broader.
12. G. [sketch] black, a broad stripe from forehead to tip of elytra, ochreish,

585 Sar. [sketch] legs pitchy antennae bk. Sing.
539. Sar. very like, has legs yellow pale. [sketch] 539. Sar
[[66]]
G. sp. [sketch] ochre, antae. bk, margins of elytra black, dilated near tip, legs all pale test.
260. Glenea sp. [sketch] ochre. [sketch] antennae legs \& sides of elytra bk. base of hinder thigh red.
76. G. Brown yel. [sketch] buff marked [sketch] [sketch] ant ${ }^{\text {aee }}$. bk.
299. G. [sketch] Black, broad white band at base of thorax \& another across centre of elytra, antenna bk. legs pitchy.
72. G. [sketch] Black [sketch] marks white legs pitchy.
39. G. [sketch] dark brown [sketch] lines \& suture yel. 3rd. joint of antennae with white ring at end.
659. G. [sketch] yellow [sketch] spots \&c bk. legs pale yel. antennae bk. Sing.
706. G. [sketch] violet blue, basal half of thighs \& all antennae yellow, beneath with white pubescence. near Mt. Ophir.
658. G.? white bk. marked [sketch] antennae \& legs pale testaceous. Sing.
[sketch]
366. G. [sketch] ashy black marked [sketch] like a clytus. antennae beyond 3rd. 852 Sar is near this joint yel ${ }^{\text {sh }}$.
26 species. 7 of these at Sarawak June 55.
[[67]]

Cerosterna n.s.
Monohammus aspersus.
[sketch] Common Singapore
24. Lamia lusca. Fab.? ${ }^{23 \text { Sar }}$
25. Lamia. ${ }^{24 \text { Sar }}$.
good new
6. Brown black ${ }^{\text {pitchy brown }}$, ochre yel. markings \& spots. Monohammus aspersus.
516. Black, spots rounder \& closer has no yel. lines on the thorax, smaller spine to thorax \& the joints of the antennae beyong [sic] the 4th whitish.
Bk. irrorated with yelsh. yel. lines \& spots on thorax \& 2 jet black spots on shoulders. [sketch] finely irrorated with ashy \& whitish. [sketch]
607. Lamia. var? rather slender, irrorated brownish [sketch] \& dusky..
370. Lamia [sketch] Black [sketch] a whitish spot \& a bk. one on lower part of elytra.
610. Lamia 8 maculata? 202 Sar . large \& a var. or other species at Malacca.
518. Lamia. 1190 Sar. reddish ashy [sketch] spots bk.
[[68]]
576 (1040 Sar) [sketch] more slender, fine ashy, thorax red \& black, \& scutellum red, surrounded with black. antennae long slender, tips of elytra spined, thoracic spine moderate.
[sketch] Blackish, finely punctured \& with the 6 spots white.

## (261) Cereopsius exoletus? Pasc.

more slender, dark, irrorated with yellowish, the two largest spots yellow white, the fainter spots \& marks yellow.
(334) Cereopsius marmoreus.
(634) [sketch] dark mottled with reddish \& black, back flattish with striae elevated at
shoulders \& crenated - 357 (337) Sar.

## Mantocera plumosa.

All these Lamidae? All have a vertical head \& a spine on the thorax.
$\underline{621}{ }^{\text {(near 29. Sar) }}$ [sketch] ashy with dark shades, short antennae like 634 in prev. but no spine on thorax.
713. [sketch] like 261 but entirely deep brown with an ashy pubescence. Malacca. ?343 Sar

Large. Strong bodies, tuberculated elytra, long antennae.
65. [sketch] yellowish \& dusky shaded, 4 spines on elytra at base, and an elevated ridge running obliquely from the shoulder to the suture near the apex.
272. (896? Sar.) [sketch] an obtuse tubercle on base of elytra, basal half \& thorax nearly white apical, dark ashy.
660 [sketch] an acute tubercle at base of elytra reddish ashy, base of elytra much punctured, "black" shades about middle \& apex. antennae very long. [[69]]
64.? [sketch] an indistinct tubercle at base of elytra, base punctured. - ashy with dark shades.

6 terminal joints of antennae dilated serrate [sketch] Blemmya whitei. Pascoe.
74. Euryarthrum albocinctum. Blanch? 766 Sar [sketch] Black, elytra very flat, oblique ridge from shoulder to apex white interrupted band across centre. white. this should go among Cerambycidae.

1018 Sar. E. bicunctum larger and two bands across elytra.
Broad shoulders, narrowed behind, short antennae.
[sketch] 69. Slaty minutely bk. marked. spots \& base of antemial joints white Agelastes ${ }^{\text {a }}$ sp.? irrorata Pasc.
[sketch] 635. covered with irregular bk., \& pale ashy bands, base of ant. joints white.
441. [sketch] Black stripes Apomecyna frenata Pasc. [sketch] white
289. [sketch]Black bands [sketch] white, pale yel. in fresh specm. on leaf antennae applied backwards to sides of Elytra.

712 [sketch]Dusky, curved [sketch] lateral marks whitish.

519 [sketch] 31 Sar form of (712) reddish brown with transverse whitish waved lines on elytra \& much punctured. [sketch]
617 [sketch] closely allied var? thorax shorter.

## Elytra not so distinctly waved. Both found on branches among dead leaves

[[70]]

* elytra Antennae longer than body

8. Plocia? near. [sketch] [sketch] yellowish ashy, 2 long. lines on head \& thorax, elytra punctured and obscurely irrorated with 2 obscure bk. waved bands. Sing. common. 274. [sketch] rufous ashy [sketch] punctured. thorax immaculate, elytra with 3 more distinct bands. Sing.
9. 348 Sar. [sketch] Ashy, base [sketch] of elytra, dark. apex, whitish with dark spot \& waved marks. antennae rather long slender.
10. [sketch] Black hairy, elytra with fine wavy black \& white marking on an ashy ground. head \& basal joint of elytra white with long hair, antennae pilose.
** antennae = body or shorter
11. (near 8.) [sketch] yellow ashy, with two black bands on elytra interrupted at suture. antennae short slightly pilose.
12. [sketch] $\mathrm{Bk}^{\text {sh. }}$. punctured, a lateral whitish base from eyes to half way down elytra \& a transverse band near the tip. antennae short very hairy.
13. [sketch] ashy with [sketch] darker markings antennae = body not pilose.
[[71]]
14. Cacia newmanni? Pasc. [sketch] Blackish [sketch] lines on thorax \& $1 / 2$ circle on elytra white, latter bk. margined behind. Antennae short pilose - 4th joint with a small brush at end -
15. [sketch] obs ${ }^{\text {cure }}$ antennae longer than body, slender pilose.
16. [sketch] dusky- slender, elytra with whitish bands
antennae with the first 5 joints very thick \& clothed with very long hair.
17. [sketch] Broader, dusky elytra with fine whitish lines leaving a mid. band \& 2 subapical spots, black, antennae rather longer than the body, slender with a few hairs. 562 [sketch] cylindric pitchy punctured, ant. shorter than body, tip of elytra whitish, rather tuberculate.

* antennae shorter than body.

705. [sketch] Pitchy, elytra [sketch] rufous.

2 spots yel. 2 penult. joints of antennae yellow. legs black. Eyes slightly marginate.

## Malacca

622. [sketch] rufous yel. [sketch] 2/3 end of elytra black with the sutural portion silky ashy - antennae \& hind legs blk.
623. 798 Sar? [sketch] yellow, elytra with a silky pubescence, much narrowed posteriorly, edge \& tip of elytra dusky- antennae black. Malacca.
624. [sketch] yellowish, body \& abd ${ }^{n}$. beneath \& tip of elytra ashy yellow, margins of apical half of elytra \& antennae black, 2 hind pair of legs black. Sing.
** antennae = or longer than body
Isosceles sp.
625. [sketch] Head \& thorax rufous, body abdomen \& elytra black, sutural portion broadest at base, ashy. legs \& antennae black.
626. [sketch] rufous yel. [sketch] tips of elytra dusky, antennae black.
627. [sketch] rufous yellow, a lat. line from the eyes to the tip of abdn. bk, antennae a spot on breast \& mid. seg ${ }^{\text {ts }}$. of abd $^{\mathrm{n}}$. bk. tibiae \& tarsi bk.
[[73]]
628. 332 Sar [sketch] rufous, ashy above, margins of elytra dusky, antennae tibiae \& tarsi bk. and base of postr. thighs.
629. [sketch] Head thorax breast \& base of elytra rufous, abdomen, rest of elytra, antennae \& 4 hind legs black, 2 basal seg. of abd ${ }^{n}$. silky white beneath.
[the following two sentences are a continuation from '704' on previous page] Small species allied to (261)

## * Antennae moderate.

711 [sketch] ashy elytra punctured \& finely speckled with black, suture slightly elevated.
antennae rather longer than body
650. [sketch] yel. ashy, 3 spots at base of elytra blackish- tip pale with a black line [sketch] 3 fine waved yel. lines on thorax. antennae shorter than the body.
546. [sketch] dusky yel ${ }^{\text {sh }}$. punctured, antennae longer than the body. small spine on thorax.

[^1]59. [sketch] Black, 3 yel ${ }^{\text {sh. }}$. lines on each elytron, two outer meeting at apex, antennae 3 times length of body.
$69^{\circ} 9 \underline{506 \mathrm{Sar} ?}$ [sketch] Pitchy with numerous pale ${ }^{r}$ markings on thorax \& elytra. Antennae 3 times length of body very pale yel. legs pale.
[[74]]
Minute Longicorns allied to (300).
71. [sketch] [sketch] pale testaceous, last 5 joints of antennae bk., elytra sericeous very obscurely punctured.
364. [sketch] rather redder, thorax longer, more distinctly punctured, base of all tibiae dusky. tip of elytra \& last joint-seg. of abdomen black.
32. [sketch] reddish distinctly punctured, antennae \& a narrow margin to thorax \& elytra blackish hind tibiae dusky at base, all tarsi bk. antennae 11/2 length of body.
66. [sketch] Black, elytra punctured, basal half \& thorax dull reddish, 2nd. joint of antennae large hairy, ant. 2ce length of body.
 2 1/2 length body.
34 [sketch] Black, elytra dull red, antennae from 3 to 6 joint of th reddish, thorax dusky with a reddish cross - base of 2 ant $^{r}$. pair of thighs red within. ant ${ }^{\text {ae }}$. $11 / 2$ length of body...
[[75]]
56. Cylindriformis sp. [sketch] [sketch]

Black \& white, antennae long slender black, legs bk. hind tarsi rufous.
443 C. . . . [sketch] Bk. \& wh ${ }^{\text {sh. }}$ [sketch]
? nearer clytus, antennae longer than body.
38. Gnoma subfasciata. Dej. 355 singar [sketch] Black, thorax transversely striated; elytra punctured, irrorated with ochre most at the apex, antennae $2^{\text {ce }}$. as long as the body. 356 Sar. Gnoma plumigera. Mantocera n.s.?
${ }^{1}$ has 3 tufts on ant ${ }^{\text {aee }}$. $\circ$ only 2 -
[[76]]
Cerambycidae.
78. Hammaticherus spinicornis (Newman). 201 Sar. agrees with H. spinicornis Newman. [sketch] this has spine of 4th joint as Newman says, but the 2nd. spine of antennae is shorter than 3rd-4th.
760 [sketch] same? $q$ smaller neck, shorter var?
26. [sketch] (78 in miniature) elytra more smooth.
633. 200 Sar [sketch] Blackish brown, thorax deeply furrowed with waved cross striae, antennae longer than body 5 - to 8 th. joints distinctly spined a narrow ridge between the eyes.
36. 944 Sar [sketch] Head \& thorax long [sketch] thorax irregularly furrowed, elytra with a variable silky gloss in short stripes. [sketch]
$3^{\text {rd. }}$ joint of antennae very long from it to the end, clothed with a fine fringe of long hair 7. ${ }^{? 205}$ Sar [sketch] Cylindric, elytra with a very fine adpressed ashy pubescence uniform, thorax deeply punctured leaving irregular eminences which are more or less clothed with yellowish hair - antennae shorter than body pitchy with neither spines nor hairs. [[77]]
517. ${ }^{\text {991? Sar }}$ [sketch] Elytra with a yel ${ }^{\text {sh. }}$. silky irreg ${ }^{\text {lar. }}$. pubescence, thorax deeply \& minutely wrinkled. antennae longer than body pitchy finely pubescent.
54. // good Rhytidodera n.s. [sketch] Black, about 14 ridges on the thorax. [sketch] Elytra with a yel ${ }^{\text {sh }}$. pubescence except a large patch on each side which is black \& coarsely punctured. antennae not longer than body.
xoanodera trigona. Pasc.
n.g.
57. 26 Sar. Eurycephalus maxillosus.
thorax with a small lat. spine \& several tubercles above, scutellum tips of elytra legs \& antennae black. Malacca Singapore.
E. longipes ${ }^{\text {cardinalis white }}$ (Wallaci). has the hind legs much longer thorax deep blood red, elytra rich test. yellow with apex black. always larger than above.
[[78]]
263. 330 Sar $C a l l i c h r o m a ~ s p . ~[s k e t c h] ~ s i l k y ~ g r e e n ~ l e g s ~ \& ~ a n t e n n a e ~ b l u e, ~ 2 ~ s p o t s ~ o n ~ t h o r a x, ~$ (one close to neck) suture \& margins of elytra, blue black..
217. 329 Sar 3 at Sarawak C. near Dorycus. Bois. [sketch] green legs blue, antennae blue bk. an oval spot on thorax 2 marginal \& 2 sutural lines, the latter diverging on each side of the scutellum, purple black.
701. C. ...? a large spec ${ }^{\text {n }}$. of 217 . but stained $\&$ greased.
699. C. [sketch] Elytra as in (217) legs \& antennae pitchy rufous, collar of thorax in front \& behind purple, green red coppery.
700. C.? Xystrocera n.s. [sketch] green legs \& antennae blue, elytra finely rugose transversely, immaculate.
[sketch] 360 Sar. Dull black. in rotten trees. Mallodon sp? new.
[[79]]
Clytus. *antennae shorter than body.
367. C. (near annulatus. [sketch] [sketch] black, bands yellow, thighs with yell ${ }^{\text {sh }}$. down. 617. Sar. yelsh. ashy
67. C. 799 Sar. [sketch] Black, bands [sketch] ashy, thorax immaculate.
60. [sketch] small var.? markings same.
578. C. [sketch] Black, ashy [sketch] bands
308. C. [sketch] Black [sketch] narrow bands, ashy -

615 Sar bands yellow, thorax as in 267, same?
710. C. [sketch] Black, bands Malacca. [sketch] ashy white.
709. BM cat sp. 125 C. rubricollis. Bug? [sketch] Black [sketch] red ashy markgs. thorax red.

Malacca, Mt. Ophir.
708. C.? [sketch] [sketch] Bk. band white.
[[80]]
? Clytus, antennae as long or longer than body, slenderer \& legs longer.
109 ${ }^{10 .}$ C. [sketch] ashy markgs. [sketch] black.
antennae rather shorter than body, 4th joint with a spine at the end.
651. ?1152 Sar. ? 327 Sar [sketch] very slender. [sketch]

3rd \& 4th joint of antennae spined.
652. [sketch] slender. [sketch] not spotted on thorax. 3rd. \& 4th. joint of ant. spined.
365. and 327 Sar. 641 Sar. [sketch] 4 last joints [sketch] of ant ${ }^{\text {ae } . ~ p a l e, ~ 3 r d . ~ \& ~ 4 t h . ~ s p i n e d . ~}$
68. 327 Sar. [sketch] 4 last joints [sketch] of ant ${ }^{\text {ae }}$. pale, 3. \& 4. spined, thorax not spotted.
442. Clytus Brahiminus. L\& G. [sketch] [sketch] 3rd. 4 \& 5 joint of ant ${ }^{\text {aee }}$. spined 35. [sketch] [sketch] antennae not spined or very minutely.

1127 Sar. [sketch] rufous red, head \& apex of elytra black.
heteromerous.? Longicorn. ant ${ }^{\text {ae }}$. joints much dilated.
[[81]]
639 Sar. Testaceous, thorax elytra tip and thighs blue.
Distenia. n.s. [sketch] [sketch]
$11^{/ /}$good. 1062 Sar entirely blue or greenish, antennae red, base of all thighs \& end of hind tibiae red ${ }^{\text {sh }}$.

271? 328 Sar. [sketch] [sketch] black.
thorax \& mid. stripe on each elytron pitchy red, antennae short last joints somewhat dilated \& a red ring near end.
Thighs much clubbed, elytra punctate.
Deuteronomia callidioides. Pasc.
482 [sketch] black [sketch] Elytra ashy pubescent thorax red. antennae rather longer than body.
733 Sar. Eyes quite divided.
764 Sar. allied same size, all testaceous. D. testacea Pasc.
58 Sclethrus. n.s. 334 Sar. [sketch] Purple, thorax \& hind part of abd. bk. spots \& marks bluish white, legs red. tibiae \& tarsi bk. but lower \& ends of tibiae of hind legs pale -
661. [sketch] [sketch] dark purple, legs red, antennae pitchy, spot white. flat, antennae larger than thorax, which is very long and slender.
1075. Sar. Distenia sp. much longer [sketch] dark blue, antennae base of thighs \& tibiae test. yellow.

At Sing. 2 species? one have white tipped antennae. not sexes. as 2 with uniform antennae were taken "in copulo"
[[82]]
559 Sar. allied but has the legs all testaceous \& the basal jt. of ant. redsh.
16. Heliomenus n.s. [sketch] [sketch] yellowish, tips of elytra, antennae club of thighs tibiae \& tarsi bk. joints of antennae, somewhat dilated.
53. 961 Sar. Glaphyra. sp. [sketch] [sketch] Black, thorax \& sutural half of elytra rufous, base of thighs pale \& antennae as in last, tips reddish. ${ }^{2}$ last joints.
17. Hesthesis sp. 586 Sar. [sketch] [sketch] greenish bk., hairy, thorax \& elytra coarsely punctured, base of hind thighs yel. \& basal joint of ant. red.
369. 587 Sar? H.... [sketch] same form, minute bk. hairy ant. rather longer proportion.. 9. Strangalia. n.s. 1167 Sar [sketch] Blacks, 6 spots yell ${ }^{\text {sh. }}$ thorax green bk. antennae serrated.
219./ 206 Sar. n.g. Lepturidae . [sketch] [sketch] Black, elytra red, tips black, thorax dusky red, elytra shorter than body. somewhat thick \& dilated -
[[83]]
About 53 Longicorns appear the same as at Sarawak.
90 distinct.
Prionidae.
583. Remphan Hopei. (Waterhouse.)
(1094 Sar) 3 1/3 in. [sketch]
Thorax smooth flat. Thighs \& tibiae all shiny on both edges.
Head thorax \& legs bk.
Elytra testaceous - body \& thighs pitchy beneath.

Macrotoma sp. (1285 Sar) 3 1/3 in. [sketch]
Thorax with deep irreglar punctures in excavation convex. Thighs \& tibiae spiny on lower edge only. Testaceous pitchy, fore-part of head \& basal joint of ant. only bk.
[[84]]

## Cetoniidae.

714. Taeniodera sp.? [sketch] [sketch] clypeus [sketch]

Black, lines on thorax, margins of abd'. seg. \& spot on tip of abdn. ashy, thorax, yel ${ }^{\text {sh }}$. with bk. spot
716. Black [sketch] on elytra yel ${ }^{\text {sh }}$. on thorax. [sketch] Elytra \& thorax green, stripes dull red.
715. [sketch] Black tip of abdn. \& side of thorax \& abdn. beneath marked with white pubescence, above dull green, elytra with the minute wh. spots.
717. Parastasia bimaculata. [sketch] [sketch] Shiny rufous irrorated thorax with 2 round black spots.
718. P. . . Black tip of abdn. yellow, thorax rufous. -
[[85]]
Curculionidae - Anthribidae.
31. Cedus tuberculatus. Wat. [2 sketches]
[sketch] Black obscurely marked thorax with reddish marks
2 penultimate joints of antennae white.
102. C. leucostictum, Wat. smaller, black with numerous minute white dots.
520. 547.386 seem to be the same genus.
101. Dorcadops marginatus. Wat. [sketch] [sketch] rufous ashy with minute bk. dots
elytra bk. margined \& with 3 larger dots white spots on each margin.
100. Dorcadops? - same form \& size has 3 white lines on thorax \& elytra.
\& 2-3 other sp. of the same genus.
390 ठ Mecocerus gazella. Schon.
277 ㅇ
103. Acoryna pictipes. Wat. [sketch]
legs black \& red banded, dusky with numerous pale reddish brown spots. rostrum short. [sketch]
389. A. bifasciatus. Wat. [sketch] [sketch]
dusky, black bands \& spots
119. Litocerus apicalis. Wat. elytra brown [sketch] \& ashy, varied tip yellowish.
386. L. flavomaculatus. Wat. bk cedres - dark ashy, yel. speckled.
402. L. crucicollis. Wat. very small, cross on elytra.
401. near Litocerus but eyes wider apart. -
[[86]]
23. Xenocerus germari. Wat. [sketch] [sketch crossed out] [sketch] flat.
ashy with brown markings, first 2 joints of antennae very long.
336. X. flagellatus. ${ }^{\text {Schon. [sketch] ashy, markings white.. [sketch] }}$
463. X. [sketch] ashy, clouded, basal joint of ant ${ }^{\text {ee. }}$ large dilated at end.
107. Tryphelocercus n.g. pilicornis Wat. small, antennae with very long hairs, 3 last joints thick.
388 ? same.
391. Hemicorynus albonotatus. Water. n.g.
small, antennae longer than body, whitish ash with dusky purple marks, being squarish wh. spots on elytra.
398. Otops sparsa (n.g. Water.). small roundish ant. short ashy brown varied, striate, thorax with brown markings minute \& irregular.
394. O. dorsalis. W. elytra striated, small [sketch] seg. spots between striae \& a large patch at base on suture.
395. O. marmorata. W. [sketch] [sketch] brown \& ashy varied. the prettiest of the small Singapore Anthribidae.
[[87]]
276. Cerastonema Wallacei. Wat. [sketch]

The fine long antennied sp. ashy \& olive varied.
2 black spots on elytra behind.
888 allied? -
98. Xylinades n.s. Elongate cylindric striate \& tubercled, antennae short thick.
annuliform. many allied $s p$.

## Brenthidae.

121. Barathrodes binotatus n.g. [sketch] [sketch] red.
122. Arrhenodes sp. pitchy [sketch] punctate. striate, elytra yel. marked.
123. Cyphagogus - sp. [sketch] [sketch] black, small wood borers.
124. ${ }^{404}$ Acicnemis - sp. [sketch] [sketch] small, long incrassited hind legs, bristly \& spiny Elytra.
381 339\} Apoderus sp.
125. Alcides sp. cylindric. [sketch] fore thighs long with a large internal spine - red \& black varied punctuate striate.
[[88]]
126. fam. Cholides - Eramidae n.g. [sketch] [sketch] brown white stripe on side \& across elytra behind.
127. ${ }^{230}$ Baridius - n.s. the flattish white spotted small curculios. short rostrum.

Mecopus. 96. 337 [sketch] The long legged species which, frequent timber \& fallen trees only in the hot sunshine.
99 Sphenocorynus. ${ }^{\text {n.s. [sketch] [sketch] elongate, elytra flat shorten the abdn. striate. }{ }^{\text {n }} \text {. }{ }^{\text {n }} \text {. }}$
Black, with round white dots like spots of paint on elytra \& thorax. on leaves.
106. Setophilus sp. [sketch] [sketch] small bk. very rugose \& punctured [[89]]

## Buprestidae.

755. 1264 Sar? Chrysodema sumptuosa? [sketch] Brilliant green rather golden, basal portion of elytra smooth rest with elevated ridges punctured between, thorax \& head more coarsely punctured, beneath golden red. Elytra not serrated.
756. [sketch] Elytra serrated at tip with a few ridged \& finely punctured dark green with a golden patch between eyes \& a golden coppery stripe from eyes to tip of elytra, beneath golden green; powdered.

754 [sketch] Elytra obscurely serrated, scarcely ridged \& finely punctured no spot between eyes, a golden patch on each side of thorax \& a narrow golden line red bordered on each side of elytra. beneath like last.
131. 134. 581 [sketch] an smooth shiny species beautifully varied with green, black purple \&c...

335 - Belionota stigma. (209 Sar.)
[[90]]

|  | Sing. Mal. | Sar. <br> $\underline{\underline{39 \mathrm{com}}}$ |
| :--- | :---: | :---: |
| Diptera. | 123. | 170 |

Walker's total
species 254.
[[91]] [blank]
[[92]] [blank]
[[93]]
Ferns - Borneo

1. On porphyritic rocks - 1000 ft elevation
2. at roots of trees - do. [1000 ft elevation]
3. Ground, shady - [1000 ft elevation]
4. On trees, 1000 ft .
5. Climbing abt. trees.
6. On rocks 1000 \& 0 .
7. On ground \& rocks shady - $\underline{1300}$
8. On rocks. 1000.
9. On rocks $1000 \&$ on trees 0
10. On trees - 1000
11. On trees - [1000]
12. On trees - [1000]
13. On trees \& rocks. 1000. - 0
14. On rocks. 1000.
15. On rocks 1000.
16. On ground among stones \& trees 1000.
17. On rocks as 1000.
18. [On rocks as 1000.]
[[94]]
19. On ground, 5 to 7 feet high -2700 feet.
20. Banks of rocky jungle rivulets. 50. tufts.
21. Swamps 3 to 8 feet high. very com.
22. Swamps com. 3-4 feet high
23. climbing over bushes \& other ferns - elegant
24. [climbing over bushes \& other ferns - elegant]
25. Swamps, tall, proliferous sundry out air root \& aerial branches semi-climbing 6 to 10 ft long.
26. Seaside on tree - jungle
27. On tree 20.
28. On tree 0 .
29. Creeping up trunks of trees 0 .
30. Creeping as do.. 0.
31. earth top of Santubong 2700 ft .
32. On ground in dry jungle. 00.
33. On banks of jungle rivulets with (20) tufts
34. On. do. ...
35. with do. fronds 3 to 4 feet.
36. with do \& 20. most abundant.
[[95]]
37. On trees \& rocks - sunshine.
38. On rocks \& dry banks. 0. to 3000.
39. In open ground base of Santubon. [sic]
40. Creeping over rocks \& trees with orchids.
41. On ground in dry jungle.
42. creeping at roots of trees with orchids
43. On rocks \& ground in shady jungle
44. On do. banks of rivulets
45. do ...
46. On rocks damp near rivulets.
47. do - do - [On rocks damp near rivulets.]
48. On rocks Serambo 1000
49. On trees near sea.
50. On ground in dry jungle- in tufts-
51. Tree fern. 15-20 feet high fronds 6 ft . $\times 2.6$ petioles at base
$1 / 2$ in. diam. hispid with minute conical spines, a furrow on the upper side [sketch] \& with a fine chaffy brown powder very deciduous. stem slender, bases of petiole [illeg.] broken off - thickness of wrist. (sketch)
52.Tree fern, 8-10 feet high, frond 5 feet, petiole smooth scarcely furrowed above \& with a close down, greenish above abruptly brown below - fronds \& leaflets very downy, sori in double row 6-8 on leaflets. Sadong.
[[96]]
52. A thick green viscid[?] from petiole when Cut off - sides of rocky rivulets. [[97]] [blank]
[[98]]
[Archivist's note: "Please note from this point, Wallace wrote from the back of the notebook. Scans have been ordered accordingly."]
[[99]] [back over]
[[100]] [inside back over]
[[101]] [inside back over]
[[102]]
1st Consignment.
Collection of Beetles sent to Mr Stevens, May

| no. | spec. | no. | spec. | no. | spec. | no. | spec. | no. | spec. | no. | spec |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 41 | 12 | 372 | 8 | 299 | 1 | 294 | 1 | 171 | 1 | 162 | 9 |
| 43 | 2 | 360 | 2 | 39 | 1 | 296 | 3 | 172 | 10 | 324 | 1 |
| 44 | 16 | 359 | 2 | 72 | 1 | 202 | 7 | 142 | 5 | 421 | 2 |
| 51 | 2 | 127 | 6 | 262 | 1 | 297 | 3 | 143 | 1 | 251 | 3 |
| 45 | 1 | 14 | 160 | 330 | 1 | 295 | 2 | 144 | 4 | 150 | 2 |
| 42 | 14 | Long | icorns | 333 | 1 | 298 | 6 | 173 | 2 | 255 | 1 |
| 46 | 18 | 6 | 5 | 273 | 1 | 79 | 1 | 142 | 12 | 253 | 2 |
| 226 | 10 | 54 | 4 | 332 | 1 | 80 | $4^{3}$ | 26 | 80 | 153 | 8 |
| 61 | 2 | 37 | 5 | 59 | 1 | 203 | 2 | Eroty | dae | 192 | 12 |
| 50 | 3 | 26 | 1 | 11 | 1 | 375 | 1 | Galer | cidae | 189 | 1 |
| 62 | 1 | 24 | 1 | 358 | 1 | 1 | 6 | Heter | mera | - | 2 |
| 225 | 1 | 33 | 1 | 53 | 1 | 2 | 6 | Stapl. | c. | 155 | 2 |
| 227 | 3 | 272 | 2 | 367 | 1 | 18 | 63 | 86 | 8 | 196 | 1 |
| 47 | 4 | 263 | 2 | 308 | 1 | Malac | derus | 234 | 5 | 439 | 26 |
| 63 | 11 | 217 | 7 | 40 | 2 | Elateri | dae \&c | 121 | 1 | 453 | 1 |
| 122 | 2 | 13 | 7 | 10 | 2 | 223 | 1 | 124 | 35 | 207 | 7 |
| 292 | 2 | 14 | 3 | 56 | 5 | 185 | 2 | 204 | 10 | 82 | 1 |
| 48 | 3 | 28 | 6 | 35 | 5 | 184 | 1 | 87 | 14 | 93 | 3 |
| 49 | 18 | 8 | 20 | 17 | 8 | 224 | 2 | 236 | 12 | 208 | 2 |
| 94 | 18 | 218 | 1 | 15 | 6 | 268 | 2 | 235 | 1 | 209 | 5 |
| 20 | 143 | 71 | 5 | 70 | 2 | 183 | 1 | 88 | 9 | 210 | 22 |
| Geod | ephaga | 23 | 2 | 219 | 1 | 265 | 2 | 433 | 12 | 211 | 10 |
| Cleri |  | 34 | 3 | 78 | 1 | 163 | 1 | 239 | 5 | 425 | 6 |
| 19 | 16 | 58 | 3 | 368 | 4 | 266 | 1 | 89 | 4 | 180 | 2 |
| 21 | 22 | 9 | 6 | 16 | 1 | 182 | 10 | 240 | 7 | 46 | 311 |
| 125 | 16 | 12 | 6 | 52 | 154 | 177B | 5 | 148 | 10 | 467 | 2 |
| 361 | 3 | 274 | 4 | Lame | licornes | 325B | 1 | 140 | 11 | 404 | 3 |
| 20 | 20 | 27 | 1 | 85 | 7 | 130B | 7 | 160 | 8 | 229 | 1 |
| 52 | 20 | 7 | 1 | 84 | 1 | 348. | 1 | 147 | 8 | 106 | 8 |
| 22 | 24 | 38 | 4 | 267 | 1 | 157 | 3 | 146 | 6 | 108 | 8 |


| 126 | 18 | 264 | 4 | 432 | 6 | 491 | 2 | 156 | 2 | 230 | 3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 363 | 2 | 73 | 4 | 256 | 1 | 309 | 1 | 168 | 2 | 405 | 2 |
| 451 | 1 | 300 | 1 | 293 | 6 | 174 | 1 | 189 | 1 | 210 | 9 |
|  |  |  |  |  |  | 245 | 1 | 427 | 6 | 120 | 23 |
|  |  |  |  |  |  |  |  | 188 | 3 | 121 | 4 |
|  |  |  |  |  |  |  |  |  |  | 112 | 4 |
|  |  |  |  |  |  |  |  |  |  | 46 | 167 |

[[103]]
[continues from previous page] 28th. 1854 from Singapore.

| no. | spec. | Recapitulation. | Species | Specimens |
| :---: | :---: | :---: | :---: | :---: |
| Rhycho | phora | Geodephaga | 20 | 143 |
| 31 | 16 | Cleridae | 14 | 160 |
| 277 | 1 | Longicornes | 52 | 154 |
| 98 | 2 | Lamellicornes | 18 | 63 |
| 23 | 2 | Malacoderms $\}$ | 26 | 80 |
| 337 | 2 | Elateridae\} | 46 |  |
| 103 | 2 | Buprestidae\} |  |  |
| 102 | 6 | Erotylidae, Chrysomela | 46 | 311 |
| 99 | 1 | Galerucidae Heteromera |  |  |
| 293 | 1 | \& Staphilinidae\} |  |  |
| 96 | 1 | Rhynchophora | 46 | 167 |
| 336 | 2 | Totals ~ | 222 | 1087 |
| 389 | 1 | 73 single specimens |  |  |
| 93 | 1 | $300^{\text {d }} 2 / 0$ |  | 30.0 |
| 109 | 1 | $300{ }^{\text {d }} 1 /-$ \} | - | 1525 |
| 392 | 1 | 167. - 1/[illeg.]\} | - | 12.10 |
| 388 | 1 | $311-6^{\text {d }}$ | - | 7.15 |
| 107 | 5 |  |  |  |
| 386 | 1 |  |  |  |
| 101 | 1 |  |  |  |


| 391 | 2 |  |
| :--- | :--- | :--- | :--- |
| 450 | 1 |  |
| 405 | 2 |  |
| 108 | 1 |  |
| 398 | 4 |  |
| 270 | 10 |  |
| 119 | 6 |  |
| 387 | 1 |  |
| 233 | 3 |  |
| 339 | 1 |  |
| 381 | 1 |  |
| 402 | 2 |  |
| 395 | 9 |  |
| 394 | 7 |  |
| 401 | 5 |  |
| 403 | 2 |  |

[[104]] [text on this page has been written over pencil text which has not been transcribed]
2nd. ${ }^{\text {3rd }}$ consignment -
Box No. 1 - Singapore \& Malacca
134. Dragonflies

44 Homoptera
15 Orthoptera
193
Box No. 6
Dragonflies - 25
Orthoptera - 25
Homoptera - 67
Hemiptera - 150
Coleoptera - 545
White ants - 5
Aptera -_ 11

## 828

Box No. 2 Singapore (all beetles in this box part of Private Coll.

| 4 | Saturnia Atlas - | $3-$ | (no. 10) |
| :--- | :--- | :--- | :--- |
| 7 | Euploea (no. 1) | $2-$ | (no. 35) |
| 3 | Papilio (no. 68) | $3-$ | $(13)$ |
| 2 | P. (no. 43) | $2-$ | $(91)$ |
| 2 | - (no. 8) | $1-$ | $(100)$ |
| 1 | (no. 7) | $2-$ | $(60)$ |
| 3 | $-($ no. 5) | $2-$ | $(61)$ |
| 3 | $-($ no. 45) | $2-$ | $(4)$ |
|  |  | $2-$ | $(3)$ |
|  |  | $4-$ | $(2)$ |
|  |  | 2 Idea | $(59)$ |
|  |  | Duos[?] |  |
|  |  | 16 | $(44)$ |

66 specimens -_
[[105]]
Box. No. 3 Singapore.
164 Butterflies, including 3 sp . of the fine Euploea prothoe. 8 Pierils Lea.
12 Pontia? new. 9 of Danais daos \&c.

Box. No. 4 Singapore
$\left\{158\right.$ Butterflies of $\mathrm{ab}^{t} .50$ species, mostly small
210 \{42 Moths - 20 species
\{8 Hymenoptera
\{1 Hemiptera
\{1 Arachnida

Box No. 5 Singapore (coleoptera)
\{840 Coleoptera (Sing.) - (165 are Longicorns.
940101 [Coleoptera] Malacca 15 sp. not sent bef.

| 95 are Lucanidae |  | 235 Curcul ${ }^{\text {dae }}$. many fine large. |  |
| :---: | :---: | :---: | :---: |
| Box No. 6. |  |  |  |
|  | Dragon flies 18\} <br> Orthoptera 25 <br> Maritus 106$\}$ | all ticketed |  |
|  |  | white an |  |
|  |  | other ne | p) 6 |
| Duplicates |  |  |  |
| Ants 16 |  |  |  |
| Hym 17 |  |  |  |
| Dragonflies\} 36 |  |  |  |
| Diptera 82 |  |  |  |
| Hemip. \& 9 ¢ 91 |  |  |  |
| Orthop. 90. |  |  |  |
| 410 [total] |  |  |  |
| [[106]] |  |  |  |
| Singapore - July 8th, |  |  |  |
| Private Collection of Insects. |  |  |  |
|  | Consists of | species |  |
| 1/6 | Hymenoptera - | 116 | $173{ }^{138} 35$ an |
| 1/6 | Diptera - | 92 | 136 (123 Wa |
| 1/6 | Hemiptera - | 75 | 143 |
| 2/- | Homoptera - | 53 | 85 (72. Walker) 48 |
| 2/5 | Dragonflies - | 43 | $72+5$ neurop |
|  | white ant \&c | 6 |  |
| 2/- | Orthoptera - | $35^{7}$ | 70 |
| 1/6 | Dermaptera \& [illeg.] Earwigs | 15 | 26 |
|  | Butterflies - | 157 | 237 |
|  | Moths - | 86 | $116-1060$ |
|  | Coleoptera - | 682 | 940 |
|  |  | $\underline{1352}{ }^{62}$ | species_2000 |
| $=1420$ insects |  |  |  |
| 1880 | uplicates packed in 6 boxes |  |  |

1080 coleoptera sent to England
4380 total insects collected in 9 weeks - in Island of Singapore
Sarawak 170 sp. of Diptera, (Walker), total $\underline{254}$ sp.
[[107]]
129.

Box. no. 7. Malacca Butterflies -
3 ornithoptera Amphrisius - (not good)
17 Papilios - 2 new Pap. broken. 1. P. delesserti 2. P. leucophaeus allied
40 Euploea \& Danais. 1 large Euploea of Mt. Ophir
2 Thaumantis odana (fine).
5 Pieris - 2 sp . Mt Ophir. 7 moths

## $\underline{229}$ specimens in all

In Box. P. 2 (Private) are for sale a pair of the Atlas \& 16 duplicate moths to the right of the Pencil. Line. 18.
In bird box
6 Mormolyce
3 Lucanus Titan (1 private)
1 large scarabaeus (private)
Box of small insects (ants, curculio \&c)
Private Box, no. P. 3
Private Coll. of
Orthoptera-
Dragonflies-
Hemiptera
Homoptera
Longicorns -
P. 1 contains Butterflies \& Coleoptera.
P. 2. Lepidoptera only
[[108]]
[in margin] Singapore \& Malacca

| Shells - Land shells - | $28-$ in card <br> box |
| :--- | :--- |
| small do Pill boxes | $18--$ |
| large Helix | 7 |
| Cyclostoma (2 sp) | 11 |
| Bulimus - | 11 |
| Helix aden | $? 6$ |
|  | $\underline{71}$ |

Fresh water Mt. Ophir 30-(3 sp.)
Sea shells. Aden \& Singapore, a miscellaneous lot -\}
Total 101 land \& freshwater

## Tortoises

Emys. ${ }^{\text {platynota }}$ n.s (a) 2 shells (private) 3 skinned \& 2 shells (duplicate)
Geomedya spinosa - 2 skinned - (sale)
Tyrse javanica - 1 skinned (sale)
Geomedya n.s.? 1 skinned private
Total Private 3-Sale 8. £7
[[109]]
2nd. small Box overland, sent Oct. 16th. 1854. contains value $£ 20$
On lower side.
Private series of Hymenoptera \& Diptera.
Hymenoptera - 173 species\}
Diptera - 136 species\} about 320 spec $^{\text {ns }} . £ 24$
On upper side. for sale Duplicates -
Hymenoptera - 206. on papers 200, abt. 400
Diptera - 134 spec $^{\text {ns }} . \underline{530}$
17 beetles in the box are private collection.
BM. $112=£ 5$
Summary of 3rd Consignment
Coleoptera - $\left.\left|\begin{array}{l|l}\text { Sale }- & \text { Private } \\ 1500\end{array}\right| \begin{aligned} & 950\end{aligned} \right\rvert\,$

| Lepidoptera - | 670 | $36^{7} 0$ | $\} 1320$ |
| :--- | :--- | :--- | :--- |
| Neuroptera - | 164 | 80 |  |
| Orthoptera | 40 | 70 |  |
| Hemiptera. | 151 | 145 | \}380, say $£ 30$ |
| Homoptera | 111 | 85 |  |
| Aptera | 12 |  |  |
|  | 2648 | $\underline{1700}$ | $£ 61$ |
| [[110]] |  |  |  |


| 3rd Consignment |  | $£$ |  |
| :---: | :---: | :---: | :---: |
| Plants - 1 Packet, 200 or 300 specimens |  |  | 5 |
| Mammalia - | 19 | 14 | 3 |
| Birds - | 331 Eggs 14 | 170 | 15 |
| Reptiles - | 12 | 9 | 8 |
| Insects - | 4350 | 2640 | 160 |
| Shells - | 101 Land \& freshwater | 101 | 5 |
| Sea shells - | ? 200 | ? 200 | 2 |
| Insure for $£ 150$ |  | £ | 135 |

Insects colld. at Sing. \& Malacca April 20th. Oct. 16.

|  | total | $\underline{\text { Sale }}$ | Pr. |
| :--- | :---: | :---: | :---: |
| 1st Consignment - | 1087 | 1087 | 0 |
| 2nd - | 850 | 850 | 0 |
| 3rd. | 4350 | 3030 | 1320 |
|  | $\underline{6287}$ | $\underline{49 \theta^{17}}$ |  |

Left Singapore on Oct".17th. in "Lady Royal Alice". England abt. March 1st. arrived in Docks - 10th March

| in May 1856 | $860 \quad 430$ | 430 |
| :--- | :--- | :--- | :--- |
| Total Malay insects | $\underline{7147-5397}$ | $\underline{1750}$ |

[[111]]
Mammalia.

1. Monkey, Semnopithecus ${ }^{\text {obscurus }}$. Malacca River.

Hands feet \& nails jet black, a crescent round eyes above \& the upper \& lower lips pure white.
tail 1/3 longer than body, skin blueish, hair above, dark greenish brown, near black, below \& tail light ash. Brown with a tuft of waved pale hair, rump with a bare blackish horny callosity.

1 sp .
$\delta^{\lambda}$ ? crown with a black transverse line, back greyish brown lips dusky. Body 20 in. tail 26. Sarawak.
2. Squirrel - L. 11 in. tail 13 in.
above deep black, beneath bright red brown, a line inside of thighs \& tail bk. tail with a broad ring of brown hairs near end, these hairs only have dilated tips - tip of tail also brownish - a broad band from the muzzle over the fore shoulder along the side \& down the thigh to the hind heel pure white, soles \& claws brownish to black. whiskers long, black -
[in margin] Sciurus Rafflesii 2 spec. Malacca
3. Sciurus hippurus? rufogaster. - L. 11, tail 13-

Back rufous gray formed by the hairs being rayed with black \& redsh - Head sides of neck, all thighs, \& root of tail \& anus, speckled gray formed of hairs with white \& black rings - feet \& tail entirely black, beneath bright rufous - hairs of tail more spreading beneath the 2 last species
[in margin] 1. spec ${ }^{n}$.
[[112]]
4. Sciurus ${ }^{\text {tenuis? }}$ - Length 6 in. tail 6 in -

Above yellowish gray, beneath dusky white. muzzle \& soles pale. tail $2 / 3$ at end with hairs yellow at base black in middle \& white at tip - Ears very short whiskers pure black - [in margin] 4 spec $^{\text {ns }}$.
5. Sciurus vittatus -

Small 7 to 9 in tail rather less.
hairs of back ringed with bk. \& rufous, beneath rufous. a lateral yel ${ }^{\text {sh }}$. line between the fore \& hind legs black-margined below, tail obscurely ringed tip rufous \& median line beneath rufous in the $q$. [in margin] 3 spec $^{\text {ns }}$.
6. Tupaia ferruginea -
L. 6 1/2 in. tail same, mixed rusty \& black above yell ${ }^{\text {sh }}$. dusky beneath. Tail bkr. the hairs rufous ringed \& tipped. [in margin] 1 sp.
$7^{10}$. Paradoxurus sp . leucomystax -
ठ. temples whitish body dusky rufous, feet dark, tail $2 / 3$ end black.
[in margin] 1 sp .
[[113]]
3 sp. 7. Bat. Xantharpia amplexicaudata?
Malacca under leaves of Palms
1 sp. 8. do.
1 sp. 9. do.
11. Pteromys ${ }^{1} \underline{\text { sp. }}$ Singapore - rich shiny brown, paler beneath, tip of tail $\&$ feet black.

19 Mammalia from Singapore \& Malacca April to Oct. 1854
12. Sciurus auriventer. ${ }^{\text {com. }}$ white squirrel, Malacca.

Entirely yellowish white.
dirtyish ashy above.
(2 other Mammals see other end of book)
13. Sciurus insignis. F. Cuv. (3 lined on back) on ground among dead sticks \& trees Sing.
[[114]]
1st Box orchids by Rapid. in England abt. June by "Randolph"
4th. Consignment - overland
Feb. 1855 Sarawak.
1 box of land shells, cont ${ }^{9}$. 20 species and 460 specimens with 40 water shells as follows
No.
x1 H. glutinosa Helix --
4 spec $^{\text {ns }}$. $\quad \mathrm{x}$ - undescribed
2 Helix regalis (flat) red \& black
7 [spec $^{\text {ns }}$ ] x 1 Cyclostoma white
3.
*3 [Helix] red, regalis, white centre 22 [spec $\left.{ }^{\mathrm{ns}}\right]$
C. Bornense com. larger37
4.
*4 Helix ${ }^{\text {schoemaculana, }}$, large com. $30\left[\mathrm{spec}^{\mathrm{ns}}\right]$
15. Bulimus achatinaceus
Cichalina small

|  | [Helix] conicoides. small acute | 26 [spec ${ }^{\text {ns }}$ ] | 16. | Helix small\} |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | spare |  |  | H. tropidophora\} | 28 |
|  | [Helix] ${ }^{\text {consol }}$. cylindro spiral | 17 [ spec $^{\text {ns }}$ ] | 17. | do do\} |  |
| 7. | Auricula nudae | 20 [spec ${ }^{\text {ns }}$ ] | $\times 1$ | H. Brookei | 12 |
|  |  |  | 8. |  |  |
| 8. | [Auricula] Judae | 30 [spec ${ }^{\text {ns }}$ ] | $\times 1$ 9 | Cycl. ${ }^{\text {birostre }}$ small, spinal | 21 |
|  | [Auricula] aurismalchi | 16 [spec ${ }^{\text {ns }}$ ] | $\times 2$ | C. Tayloranum. hairy do - | 31 |
|  |  |  | 0. |  |  |
|  | Concovulus, striped | 40 [spec ${ }^{\text {ns }}$ ] |  | Sea shells - | 40 |
|  | Cassidula mustelina |  |  | Littoria[?] 2 sp . |  |
|  | C. coffeae | 35 |  | total 500 |  |
|  | Scarabus Bornense | 3 |  | Declared value £15- |  |
| Left Sing. Feb. 18. London abt March April 3rd. all marked thus pretty good, more will sell. [[115]] <br> arrived Sing. 14th England about July |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 5th Consignment (2nd Sarawak) |  |  |  |  |  |
| Feb. 1855 Sarawak - |  |  |  |  |  |
| a Jar of Beetles in Box of Orchids (2nd) |  |  |  |  |  |
| Cont ${ }^{\text {. }} 105$ Lucani \& Passali |  |  |  |  |  |
| Both these left Sarawak in the Weraff Feby ${ }^{\text {y }}$. 10th |  |  |  |  |  |
| 5th Consignment. Insects. <br> [in margin] BM. $250 £ 15$ |  |  |  |  |  |
|  |  |  |  |  |  |
| Private Lepidoptera - 2000 |  |  |  |  |  |
| Lepidoptera for sale . . . 870 |  |  |  |  |  |
| Coleoptera for sale - 980 |  |  |  |  |  |
| Miscellaneous for sale (conditional) $\underline{800}$ |  |  |  |  |  |
| In 5 boxes Total - 4650 |  |  |  |  |  |
| in jar 100 |  |  |  |  |  |
| And 4 king crabs, 3 for sale - $\underline{4750}$ |  |  |  |  |  |

also 1 Box (3rd) of Orchids.
by Dido, left Sarawak, March 3rd ? England. August.
arrived in Jan ${ }^{y}$.
4th lot of Orchids - a cask cont ${ }^{9}$.
5 Vanda Lowii
6 Renanthera (red)
6 [Renanthera] white
left Sarawak. April 3rd - 4th. England abt ${ }^{t}$. Septr${ }^{r}$. 1st.
[in right margin] All these left Singapore 24th April in "Bangalore" with the Vanda.
[[116]]
5th lot of Orchids - arrived all dead -
2 Boxes with 20 old plants of Vanda Lowii \& 3 other small orchids. Si Munjon May 16th.
in "Weraff",
Left Sarawak [May] 19th.
arrived at Singapore [May] 24th
left Singapore - June 13th.
in the Ships, May 29. Liverpool, June 13th to London. by "Johann Lange"
Insects collected in Borneo from Nov. 1st. 1854 to Jan 31st 1856.

| 1st Consignment Mar 1./55 | sale. | Total. 4751 | B.M. $£ 15$ |
| :---: | :---: | :---: | :---: |
| 2nd [Consignment] overland - | 719 | 719 | £25 |
| 3rd [Consignment] July 16th 55/ | 6500 | 7600 | £45 |
| 4th [Consignment] overland Oct. 57/. | 4084 | 4910 | $£ 13.15$ |
| 5th [Consignment]\} | \{3900 | 5590 |  |
| 6th [Consignment]\} together | \{1100? | 1764 | $£ 44.5$ |
|  | 19.054 | 25.334 |  |
|  | 430 | 860 |  |
|  | 19.484 | $\underline{26.194}$ |  |
|  | Private - | $\underline{6200}$ |  |

[[117]]
119

England Oct. 1st. 1855.
$6^{\text {th }}$ Consignment, a box of Beetles overland.

| 993 | 6 | 887 | 8 | 364 | 5 | 625 | 2 | 443 | 6 | 161 | 4 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 582 | 7 | 326 | 8 | 646 | 4 | 14 sp. |  | 1002 | 2 | 715 | 5 |  |
| 540 | 1 | 353 | 10 | 487 | 6 | 53 |  | 8 sp .4 |  | 3 sp |  |  |
| 164 | 6 | 334 | 6 | 521 | 4 | Culcu |  | Clerida |  | 12 M | della |  |
| 357 | 11 | 732 | 4 | 1011 | 2 |  |  |  |  | 314 | 4 |  |
| 344 | 8 | 505 | 1 | 362 | 1 | 1067 | 3 | 8 sp. 2 | 4 | 632 | 4 |  |
| 351 | 9 | 627 | 4 | 363 | 1 | 931 | 2 |  |  | 731 | 7 |  |
| 1041 | 1 | 201 | 6 | 488 | 1 | 908 | 2 |  |  | 316 | 4 |  |
| 353 | 7 | 336 | 4 | 1013 | 1 | 250 | 4 |  |  | 4 sp . | $9-$ |  |
| 321 | 10 | 513 | 3 | 678 | 6 | 19 | 2 |  |  | Chrys | mela |  |
| 994 | 7 | 360 | 3 | 1071 | 10 | 83 | 2 |  |  | 152 s | ecies |  |
| 24 | 4 | 486 | 14 | 734 | 2 | 18 | 5 |  |  | 719 b | etles - |  |
| 583 | 9 | 961 | 2 | 825 | 3 | 17 | 4 |  |  | Longi | orns |  |
| 322 | 6 | 586 | 2 | 1266 | 1 | 948 | 2 | 7 | 6 |  | 352 |  |
| 944 | 3 | 743 | 2 | 22 sp . |  | 211 | 6 | 858 | 6 | Bupre | tidae |  |
| 200 | 3 | 565 | 3 | 99 |  | 369 | 6 | 276 | 2 | 22 | 99 |  |
| 346 | 8 | 341 | 5 | Bupre |  | 370 | 6 | 421 | 5 |  |  |  |
| 1263 | 8 | 584 | 3 | 220 | 8 | 771 | 6 | 227 | 2 | Curcu | ionidae |  |
| 1125 | 3 | 337 | 10 | 4 | 6 | 771 | 5 | 514 | 3 |  | 53 |  |
| 581 | 4 | 323 | 4 | 2 sp . |  | 874 | 1 | 88 | 3 | Elater |  |  |
| 345 | 14 | 735 | 2 | 14 Cet |  | 372 | 7 | 377 | 1 |  | 50 |  |
| 969 | 3 | 620 | 4 | 599 | 4 | 160 | 4 | 8 | 5 | Carab | dae |  |
| 354 | 3 | 560 | 5 | 385 | 3 | 373 | 5 | 160 | 3 | 10 | 37 |  |
| 766 | 5 | 641 | 2 | 384 | 5 | 973 | 2 | 10 sp . |  |  |  |  |
| 1018 | 1 | 933 | 1 | 382 | 6 | 11 sp . |  | Carab. |  |  |  |  |
| 340 | 6 | 202 | 3 | 938 | 3 | 59 Ela |  | 123 | 3 |  |  |  |


| 1009 | 34 | 65 sp. <br> 352 Long. |  | 900 | 4 | 665801 | 6 | 315 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 348 |  |  |  | 463 |  |  |  | 1 |
| 332 | 4 | 3 | 6 |  | 386 | 4 | 261 | 6 | 450 | 6 |
| 944? | 6 | 361 | 8 | 391 | 2 | 444 | 4 | 881 | 8 |
| 640 | 10 | 209 | 6 | 497 | 4 | 492 | 6 | 5 sp |  |
| 31 | 4 | 302 | 8 | 1203 | 4 |  |  | 22 H |  |
| 943 | 6 | 713 | 6 | 389 | 4 |  |  |  |  |
| 939 | 10 | 1012 | 6 | 415 | 4 |  |  |  |  |
| 615 | 11 | 769 | 6 |  |  |  |  |  |  |
| 37 | 6 |  |  |  |  |  |  |  |  |
| 356 | 8 |  |  |  |  |  |  |  |  |

[[118]]
Left Singapore by Cornubia for London early in August 20th. England in Jan.?
7th Consignment
Long packing case contains -

## Skeletons of Orang utan-

§ adult (nos. 2, 9, 11) —— 3 (keep)
$q$ adult (nos. 6, 7, 12) - 3 (keep)

Bones of limbs of nos. 1, 4, 5 $\qquad$

## Tortoises

[in margin] 15 for sale -
No. 1. - 2 stuffed 3 adult shells, 1 young, 1 skul. [sic] 7
No. $2-4$ stuffed (1 private) - (4)
No. $3-2$ shells 2 stuffed 1 skul ..... 5
No. 4 - 1 stuffed in Beetle box, (private.) (1)
No. 5... 2 young shells (not sent)
No. 6. 1.. large private (1)
In square case
2 sculls of young Mias ${ }^{(n o s . ~(3 ~ \& ~ 5) ~}-1$ imperfect of $q$ adult (no. 4)
2 skins dried of same. all for sale -

1 scull of "ursus malayanus" Left Sadong July 21st
Small box in Case ..
5 Bottles.. Coleoptera in spirits
1 small do....minute do ....
2 Bamboos with 4 Tortoise eggs.
1 Box with wasps nest. ....
8 \& 10 dry fruits..
1 small tortoise shell..
[[119]]
2 corked Boxes. 5 Pill boxes, 1 cigar box of beetles - paper

## 7th Consignment - Insects —— 4th Sarawak

| Coleoptera - | Sale | Private | Total |
| :---: | :---: | :---: | :---: |
| In spirits in 5 bottles - In a small bottle abt. 100 more minute | 800 | 150 | 950 |
| In papers - _ | 89 | 12 | 101 |
| In boxes pinned | 4215 |  | 4215 |
| In a corked box |  | 700 | 700 |
|  | 5104 | 862 | 5966 |
| Or pinned - |  |  |  |
| Longicorns - | 830 |  |  |
| Cetonidae - | 9 |  |  |
| Curculionidae - | 1050 |  |  |
| Lucanidae - | 49 |  |  |
| Carabidae - | 512 |  |  |
| Elaters - | 120 |  |  |
| Buprestidae - | 278 |  |  |
| Miscellaneous - | 1367 |  |  |
| Lepidoptera - |  |  |  |
| Papilios - $15 \mathrm{sp} .-$ | 47 | 15 | 62 |
| Euploeas - |  | 6 | 23 |
| Pieridae - 11 sp - |  | 11 | 43 |
| Other orders - 30 sp - |  | 30 | 101 |

Moths -
[in margin] 20 sp . of Mantis 20 of Phasm
Orthoptera $28+142+33=$
Other orders $162+5-8+410=400$ species

| Total insects about - <br> 6500 for sale | $\underline{7600}$ |  |
| :---: | :---: | :---: |

[[120]]
5th consignment Sarawak. (8th in all)

|  | Priv. | Sale | Total |
| :--- | :---: | :---: | :---: |
| Small Box overland - | 830 | 1045 | 1875 |
| On card in sheets of paper |  |  |  |
| $(366$ Curcul. private) |  | 1500 | 1500 |
| On card in pill ${ }^{\text {pin }}$ boxes - |  | 1500 | 1500 |
| Between papers in pin boxes - | 2 | $27^{5}$ | 27 |
| Large cola . in papers | 1 | $18^{4}$ | 8 |
| Butterflies in papers | $\underline{4084}$ |  | $\underline{4910}$ |
| Arrived in Decr. 55/. |  |  |  |

1 cask containing skins of Orang - by "Margaret West."
nos 6, 7, 8, 9, \& 12 -
By "Water Lily" - Singapore Mar 2nd. Anjer Mar 7. 9th in all.
Lond. June 21.
6th Consignment (Sarawak.)
2 casks cont ${ }^{9}$. skins of orangs, $4 \&$ young.

1. Box cont9. 16 sculls of orang \&c.

1 skeleton, marked,
Skins of Mias - 2 § larger, $2 \delta$ small, 4 ¢, 2 young.
1 Box. cont ${ }^{9}$. a bundle of ferns.
\& the following Insects in 6 boxes. - left Sarawak, Jan. 1st in
Santubong.
[[121]]
Insects. pinned - $\quad|\underline{\text { Sale }} \quad| \underline{\text { Private }}$

| Coleoptera - | 1583 | 1690 |
| :--- | :--- | :--- |
| Lepidoptera - | 266 |  |
| Miscell. - | 1128 |  |
| Lepidoptera in Papers | 252 |  |
| Coleoptera in Card | 650 |  |
| in Papers \& boxes | 20 |  |
| Totals - | 3900 | 1690 |

4 Sterna of Birds - private..
2 crania - of musk deer \& otter
1 skeleton of lemur -
1 scull of young orang - (Left Jan 1st.)

## In large case $-\&$ small box.

Shells - 1000? (3) 100 (9) 135 (18) 10
(14) 50 (13) 3 (7) 80 (8) 80 \&c \&c. Oct. $3 / 56$
sold. £9.
Birds private - 96 species.
[Birds] sale in tin box - 60
Mammals - $26+30-56$
BM. took 16 Mam $^{\text {ls }} .5$ tortoises for $£ 12$ (Stevens Oct. 3)
Franks took 13 mam +3 sculls $£ 16$
[[122]]
5 bottles of reptiles .. 1 Tortoise (Tyrse) 3 tortoise shells.
Lepidoptera in box - sale? - 1080.
2 pieces of endogenous wood (Liliaceae?)
a quantity of papers \& books private.

```
In small box.
```

Books \& papers private. -
3 for Mr. Silk - 4 bird skins (sale)
Lepidoptera - Private moth - 585
Miscell. - 44
Coleoptera - (46 private) - 55

| and the Chineese Insects spectacles broken \& Chineese prints - |  |  |
| :---: | :---: | :---: |
| Total insects (Sarawak) - 1764 other boxes 39005662 |  |  |
| By "Water Lily" |  |  |
|  | Sale |  |
| Sing. Mar 2. Large | 1100 | 664 |
| Lond June 21 Before | 3900 | 1690 |
|  | 5000 | 2854 Pr. |

April- 1856.
10th Consignment.
70 small shells from Biliton - (sale)
37 Birds - Malacca \& Singapore (Private)
Insects - Private 430 - Sale 434 (286 col.)
2 snuff boxes - watch - 2 chineese purses - chineese glass toy
3 shells - monkeys scull - private.
2 monkey skins - 38 crustaceae -
Butterfly papers - 30
Beetles - [papers] 32
[Beetles] pin boxes $\underline{200}$
Per Dunedin in July
[[123]]
Left Singapore Sept. 22 in "City of Bristol."
Lombock collection - Aug. 1856.
Birds - 69 species - sale 300
sterna \& sculls - private.
Butterflies in papers 150
Beetles - 250$\} 465$
Miscell. 65
Bats - 1 sp. 8.
Musang - 1

| Land \& freshwater shells | $\ldots 7$ sp. | 100. |
| :--- | :---: | :---: |
| Private Collections. | Col. | Lep. |
| Sp. Sing. \& Mal. - | 950 | 370 |
| 1000 [Sing. \& Mal.] | 300 | 130 |
| 2000 Sarawak - | $\{860$ | $2000^{150}$ |
| [Sarawak] 342 | $\{830$ |  |
| [Sarawak] | $\{1736$ | 620 |
| 80 Lombock | $80-$ | 40 |
| 900 \{ Macassar 254 sp.- | 270 | 200 |
| [Macassar] $800-$ | 1075 | 280 |
| 572 Aru — | 745 | 270 |
| 290 Amboyna | 330 | 140 |
| 1000 Dorey | 1450 | 118 |
| 1050 Batchian | 1870 | 245 |
| [[124]] |  |  |

Macassar collections - Septr. Octr. (pt.) 8th Nov. 56 (pt) 15th
Shells .. (Freshwater abt. 50 .. 60 .. (2-3 sp.)
Helix .. cidaris. Lam. rare 7/- large brown - -5 specimens
[Helix] trochus white single brown band 1 s/ $2 /-130$ [specimens] \} 410. packed in
[Helix] pale purplish, speckled, new 2/6 84 [specimens]
[Helix] very small, globular, brown $6{ }^{d} 6$ [specimens]
Bulimus interruptus, com. yel. single line 32 [specimens] Cigar box..

1 unique flat Helix
.. 12 species
[Bulimus] var. yellow lightly brown banded ${ }^{6 d} 1 /-39$ [specimens]
[Bulimus] var. [yellow] darkly [brown banded] 72 [specimens]
B. procellatus. 3 small pretty species $2 /-12$ [specimens]

Cyclostoma? (Sarawak. 13.) $3^{\mathrm{d} /-6} 6^{\mathrm{d} / .30}$ [specimens]
Birds .. (247 in all sent.)
Private collection 82 specimens, red banded tickets..
Sale ... $165 \mathrm{sp}^{\text {ns. }}$ includ ${ }^{9} .30$ Raptors of 7 sp .
Insects. total sent ... 2774 ...
Coleoptera 270. Lepidop 200. private 470.

Sale.. Lamellicornes. 350
Geodiphaga - 245
Longicorns - 70
Others - $\quad 350 \quad\} 1015$ pinned
in papers \& pin boxes....... $\underline{375}$
total 1390
[[125]]
Lepidoptera... \{264 pinned mostly small
456 specimens $\{192$ in papers..
Hymenoptera.. 378.. all pinned..
Other orders 80 mostly pinned..
Totals Insects for sale 2300 specimens
Bats - ?10 of two species
Felis - 2\} ${ }^{\top}$ \& $q$
Cuscus -1\} BM. £ 4
Scull of the wild Pig. young.
(3 vols. of Books, private)
One bundle of Plants from Lombock.
By "Margaret West" from Batavia in Feb. arrived
at Downs June 10.
July 1st in London - Aug. 10 letter from Stev
By Septr .12 had produced $£ 130$.
Feb. /58 [had produced] £140 Say £100 clear.
[[126]]
Insects. 7750 specimens collected
Aru Collections. Jan. - July 1857.
[in margin] abt. 60 Batocera
Coleoptera .. pinned 225 sp., 25 fine .. 2000
[Coleoptera] in papers 50 T. admirabilis.. 300
Ke species, Chrysodema Lomaptera \&c. 700
\}3845
[Coleoptera] on card. in pin boxes... 845
Lepidoptera pinned 65 sp . ..... 860
[Lepidoptera] in papers. 55 Ornithoptera ..... 465
Miscellaneous - pinned... ..... 760
Miscellaneous in papers.... ..... 18\}1325
$6{ }^{\wedge}$ fine, 6 med. 14 bad.
200
Miscellaneous on card in pin boxes ..... 6148
Mr. Saunders' series ..... specimens.
Hymenoptera (ants 59) ..... 230
Diptera — — 185 sp. — — ..... 195
Hemiptera ..... 85$\} 596$
Homoptera ..... 52
Orthoptera \& Neuroptera \&c. ..... 34
Private Collection ..... specimens.
Coleoptera 572 species ..... 745
Butterflies 157 species ..... 269 ..... \}1104
Moths ... 72 ..... 76
14 beetles in papers ..... 14
[[127]]
1857
Birds - duplicates - - ..... 422
Mammalia 9 species ..... - 9
Land shells ..... 570
Freshwater \& Marine about 200 .....
Among the birds areParadisea regia ... $16{ }^{\wedge}$ fine spec ${ }^{\text {ns }}$.P. apoda.. 26 § [fine spec $^{\text {ns }}$ ]
Microglossus ..... 4
Carpophagae ..... $26-5$ species
Dacelo ..... 13
Tanysiptera ..... 16
and many small things
From Singapore by "Mavor" aori for London about 5th-10th Septr. Letter abt. Sept. 1st. Letters to Stevens \& home by mail Aug. 1st. from Sing.
sent by Capt. of "Alma" to Singapore.
Should fetch near $£ 5 \theta^{1} 0$.
Arrived in Jan. \& up to June had produced $£ 1000$ gross! without Saunders.
[[128]]
By "Corcyra". Dec. 20th? to Singapore
Macassar, 2nd Coll. Nov. 1857
Coleoptera - Pr. $\left.3230^{1075}\right\}$ Sale $958+3327$
Lepidoptera - $280-\underline{185}+600$ ?
Other orders .. - 460 no diptera $-\underline{950}$
3320 Col. in pin boxes. 100 Ornithop.
7 large in papers Total insects colld 8080

```
Shells. Helix cidaris - }10
other species - 32
}140
```

Freshwater - ? 50 -
Birds - 85 of species before sent
[Birds] - 81 of fresh species
Total - 166 spec $^{\text {ns }}$. for sale.
3 Bats (species 3) \& 1 squirrel private.
2 crania of $\widehat{\sigma}^{\lambda}$ adult wild pig.
Diptera private. 202. species sent afterwards with Amboyna Coll ${ }^{\mathrm{n}}$.
Produced $£ \underline{260}$ gross ( $£ 200$ clear) without Saunders $£ \underline{100 ?}$ - to Mar 15/
should produce near $£ 300$.
arrived in London in July $1857^{8}$
[[129]]
By steamer to Batavia Jan. 6th. 1858
Amboyna - Dec. 1. to 31. 1857. (20 days
collg.)
Coleoptera (Timor \& Banda)...

| do .. (Amboyna pinned) - | 540 |  |
| :---: | :---: | :---: |
| do .. (Amb. in pin box \& papers)...... | 130 |  |
|  | 935 |  |
| In spirits (6 E. longimanus). about | 1000 |  |
| Lepidoptera .. pinned ... | 84 |  |
| [Lepidoptera] in papers (overland) | $\underline{170}$ |  |
|  | $\underline{254}$ |  |
| Miscellanea |  |  |
| Saunders (. 150 sp.) ...170\}.. <br> [Saunders] Banda \&c. ...30\} | 200 |  |
| Sale ..... 65 | 65 |  |
| Produced £80 clear to Mar. 10 /59 | $\underline{265}$ |  |
| Private Collections | species | spec ${ }^{\text {ns }}$. |
| Coleoptera (Amboyna) | 290 | 330 |
| [Coleoptera] Lamia \& Prionus in spirits |  |  |
| \& 1 Dyn. Gideon. large from Ceram, private |  |  |
| [Coleoptera] Banda, Timor, Java, Menado | $55 .$. | 80 |
| [Coleoptera] Japan (Larg. 12) | $50-$ | 60 |
| Lepidoptera diurnii 140\}... 87 sp.\} |  | 185 |
| [Lepidoptera] nocturnii 45\} ... 35 sp.$\}$ |  |  |
| Total Insects colld. $\underline{3000}$ |  |  |
| [ $[130]$ ] |  |  |

3 cases, total $\mathrm{ab}^{\mathrm{t}} .7400$ insects.
Collections - Dorey, N. Guinea.

| Left Ternate in Octr r \& Nov. 1. to Sing. | Private | Sale |  |
| :--- | :--- | :---: | :---: |
| Coleoptera | 2000 pinned | 1400 | 5000 |
|  | 1700 in boxes |  |  |
|  | $? 1400$ in spirit |  |  |
| Lepidoptera | 160 in papers | 118 | 295 |
| Miscell. |  | 375 | 260 |

[^2]1300 beetles.
25 misc.

500 in bottles
$\underline{200}$ pinned

100 Lep
also Delli. Mac. Batc. \&c. abt. 100 spec $^{\text {ns }}$.
Crania, sterna, Papuan articles, feathers, bird skins - private - also land shells.
abt. 24 [illeg.] \& 40 Oryctes Dorey in spirits. [illeg.] not pinned.
4 Eu. longimanus for sale.
Insects in bamboo for experiment
$\mathrm{Ab}^{\mathrm{t}} .100$ Macassar shells - to keep spec ${ }^{\text {ns }}$ for me.
1 bamboo fern spores for Mr. Saunders.
Birds. 223 duplicates about $£ 100 £ \underline{245}$
[Birds] 94 private
Singapore Oct. 29. /58. 1858
[[131]]
1859. Letter reached Stevens May. 24

Batchian - Jan. 30th. (Left Ternate Mar. 6th) ${ }^{\text {Bat. Ap. 9th. Sing. Ap. 13th. }}$
Small box for overland. contg.
Paradisea n.s. 6ठ'. 1 t. 1 juv. (\& 1 private $\delta^{\wedge}$ )
[in margin] £88
Ornithoptera croesus. 11 ${ }^{\lambda} .8$ ? . best pair private. 2 or 3 of $\boldsymbol{\gamma}^{\lambda}$ bad.
Pap. telemachus. 14 spec $^{\text {ns. }}$. best $\delta^{\lambda} \&$ a var. private.
£273-4 poor
Batchian - general collection.
Bats -8 or 10 sp . (20 large). 54
Belideus - 2
Paradoxurus - 1 - Cuscus 1 - 2
Cynopithecus. ơ 2, young. 1- 3 \} 63.
Deer. head \& horns \& scull (not sent) 1
Sculls of the monkey \& a + scull.
Cranium of Batchian pig. (not sent)

[^3]Land shells - (of about 20 sp .) 300
Fresh water shells about 200
Private 28 sp. 58 specimens (19 Helix)
Birds - Private 114 - Sale 371 -
(Paradisea đ. 19) $\uparrow 17$.
[[132]]
1859. Ap. Should bring $£ 1000$ gross at least

Batchian. general collection (cont ${ }^{d}$.)
Insects.
Lepidoptera 245 sp $^{\text {ns }}$. Coleoptera 1870 - Private

|  | sp. | spns |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Moths. | 48 | 50 | spec ${ }^{\text {ns }}$. | Lep. in papers | 620 |
| Dip. | 105 | 140 | $\underline{580}$ | [Lep.] pinned | 340 |
| Hymen. | 100 | \}210 |  | Cola ${ }^{\text {a }}$ in pin boxes | 1950 |
| Ants | 72 |  |  | [Cola ${ }^{\text {a }}$ ] in papers | 300 |
| Hemip. | 63 | 83 | Saunders. | [Col ${ }^{\text {a }}$ ] ${ }^{\text {a }}$ ] tin boxes | 350 |
| Homop. | 53 | 60 |  | [Colla ${ }^{\text {. }}$ p pinned | 3770 |
| Orthop. | 20 | 21 |  | Miscell - - | $\underline{460}$ |
| Neurop. | 7 | 7 | 480 sp. |  | $\underline{7730}$ |
| Aliae - | 12 | 12 |  |  |  |

Pap. telemachus -65 spec $^{\text {ns. }}$. most ${ }^{\lambda}$. ( 40 very fine)
Total insects collected in 6 months 10.400
Ternate \& Gilolo. Box, sent with above, contains
Saunders misc. 310 specimens (large Phasmidae \&c.)
Duplicates - Lep. 50. Col. 470 miscell. 135.
Helix - Gilolo - 88 specimens.
Left Ternate May 1st.
Overland box of Papered beetles \&c. Ieaves Batavia June 8.
rest in a month? by ship to Liverpool - Glasgow.
by "John Knox" from Batavia July 12th?
[[133]]
1859 October. Ternate \&c and Menado - Insects \&c. Nov. 10 to Batavia
Private - Lepidop. 270, Coleoptera 825\}

| Sent to Singapore Decr. [Coleoptera] Ternate \& Timor 900\} |  |  |  |
| :---: | :---: | :---: | :---: |
| Saunders series. |  | Duplicates |  |
| Moths - | 65 | Lep. in papers - | 125\} |
| Aliae - | 255 | [Lep.] pinned | 75\} |
|  | 320 | Cola ${ }^{\text {a }}$ in pin boxes | 350\} |
| 700 Cicindelidae |  | [Col ${ }^{\text {a }}$ ] in papers - | 255\} |
| Private insects | 1995 | [Cola ${ }^{\text {a }}$ ] pinned - | 1880 |
| Saunders do - .. | 320 | Miscellaneous | 420 |
| Sale | 3105 | Total | $39^{105}$ |


| Total insects $\quad \underline{5420}$ of wh. ab. 2000 Ternate Timor \&c. |  |  |  |
| :--- | :---: | :---: | :---: |
| Shells - Timor Coupang - 1 Helix 1 Bul. | 170 |  |  |
| Gilolo \& Ternate - 6-8 sp. - | 50 |  |  |
| Menado - (Large Helix 7, small 40) | 150 |  |  |
| Total shells - |  |  | $\underline{350}$ |



Private Col ${ }^{\text {a }} .775$ Lep. 176 - Misc. (S.) 80

| Beetles. in papers - | 230 | Shells |  |
| :--- | ---: | :--- | ---: |
| [Beetles] in pin boxes | 220 | Hel. citrina - | 120 |
| [Beetles] pinned | 1670 | [Hel.] white | 550 |
| [Beetles] loose - box | 160 | [Hel.] spotted | 70 |
| [Beetles] E. longimanus (o 46) | 62 | [Hel.] dark small | 20 |
|  | 2342 | [Hel.] hollow apex | 50 |
| Butterflies | 600 | [Hel.] small brown | 20 |
| Miscell - | 60 | Amb. white | 20 |
| Total for sale —— | $\underline{3002}$ | Land shells | $\underline{850}$ |

Birds - 65 private - 91 duplicates
Bats -3 sp .7 spec $^{\text {ns. }}$. Cuscus -2 sp .6 spec $^{\text {ns }}$.
Marine shells - 1350 spec $^{\text {ns }}$. (300 sp.?) Private
Cassowary eggs \& deer horns (2) Private.
Kanary nuts for Mrs. Wallace - \& cloths
(3 light 1 bk trousers) for Mrs. Sims -
Books to be kept - spiny grass private -
shd . produce about £200 clear.
Menado \& Ternate\} [sh ${ }^{\text {d }}$. produce about] $£ 600$ or 700 clear
[[135]]
sent Jan. 1861 by "J.B. Cain" - April 15.
Ceram - Mysol \& Waigiou. 1860
Coleoptera - Pr. 2436. Dup. 5346
Lepidoptera. [Pr.] 580 (600, pap.) 2138
Miscell. $\quad$ S. 12461905

| Total 13,651 |  |  |
| :--- | :--- | :--- |
| Land shells - | 4262 | 9389 |
|  |  | Ceram - 204 abt. 10 sp. |

Goram - 238 [abt.] 2 [sp.]
Mysol 36 [abt.] 12 [sp.]
Waigiou 403 [abt.] 10 [sp.]
Gilolo $\quad 28-1.0$

| 908 |  |  |  |
| :---: | :---: | :---: | :---: |
| Birds - | sp. | pr. dup. |  |
| Waigiou - | 74 - | $96-247$ |  |
| Mysol - | 100 - | 117 - 386 |  |
| Ceram - | 68 - | $95-222$ |  |
|  |  | $\underline{308}-\underline{855}$ |  |
| Mammals- |  |  |  |
| [in margin] Mysol |  | [in margin] Ceram | Waigiou |
| 6 Kangaroo |  | 1 Cuscus | 1 Bat small |
| 3 Rats |  | 2 small bats | 1 Mus |
| 1 Belideus |  | 10 Pteropus (3 sp.) | 6 Cuscus |
| 3 Pteropus |  | 1 Sorex | 8 |
| 1 Brown rat |  | 14 | Total 37 mammals |
| 1 Bk. do. |  |  |  |
| 15 |  |  |  |
| [[136]] |  |  |  |

Timor Delli. Jan to Ap'. 1861
4 cases. Batavia Ju. 4 Aug. 5 by "W. Simpson"
Butterflies - in papers 180.
Beetles- (papers 26)
Birds, 141 pr. 475 duplicates.

## Sent with Bouru's Coll ${ }^{\text {ns }}$.. July 1861

Beetles - Pr. 146 Sale 250
Butts. [Pr.] 140 [Sale] 15.0 pinned
Miscellaneous - [Sale] 130
Bouru May-June 1861

| Beetles — Private $366-$ | Sale 565 tiny \&c. 100 |  |
| :--- | :--- | :--- |
| papers 200 | $\} 860$ |  |
| Butterflies [Private] $121-$ | [Sale] 64 |  |
|  | papers 128 | $\} 190$ |

Miscellaneous — 50
$30 \quad\} 180$
A (1) In large case all Bouru birds and all pinned insects n. g. Bouru \& T. Delli with a few Timor \& Gilolo to fill up - all marked.
(2) Long case - N. Guinea Birds \& Mammals.
(3) Gin case - [New Guinea Birds]

4-5-Gin cases - Ternate, Gilolo \& Timor birds.
Bouru beetles in papers - Cloth \& sundries pr.
(6) [Gin case] - Butts in papers. Sculls, books \&c private.
7. Small box of Papuan shells - (upright).
8. Small box with honeycomb, private,

Bouru Birds. 84 Pr. - 183 Dup.\} July 20th from Sourabaya Aug. 5th by "W. Simpson"
1 case left
[[137]]
Left at Batavia - Nov. 1st. 1861
addressed to S. Stevens.
(1). Large case, opp. page. A.
2. Gin case, Java birds - Private.
3. Box with Java sculpture.
4. [Box] with Peacock \& Hornbills.

5-6. Sula Birds (Allen)
7 - Packet of Timor \& Menado palm leaves.
[[140]] [blank]
[[141]] [blank]


[^0]:    Suppose Australia to have been elevated during oolitic period - fossils agree with present fauna \& flora. -

[^1]:    ** antennae long.

[^2]:    Also. Ternate \& Gilolo.
    Col. 600 in pin boxes

[^3]:    Shells. - (Kaioa private 5-6 sp.)

