Karl should check sex and identity

Data for bats preserved in fluid and "skull only" specimens.
(ASE = Archbold Sulawesi Expedition)

Central Sulawesi, Tomado (1° 19' S, 120° 03' E; southwest shore of Danau Lindu), 1000 meters

21 July 1973				
	ASE 3	♀	Bat	79-34-7-12-tr.?: 5g
	" 10	♀	Cynopterus brachyotis	95-11-14-16: 22g
	" 11	♀	Nyctimene cephalotes	123-23-16-17: 42g
	" 14	♀	Cynopterus brachyotis	107-8-13-12: 33g
	" 15	♀	" "	92-5-11-16: 28g
	" 16	♂	" "	91-8-15-18: 30g
	" 17	♀	Thoopterus nigrescens	142-x: 90g
22 July 1973				
	ASE 20	♀	Cynopterus brachyotis	99-6-12-17: 32g
	" 21	♀	" "	82-9-15-15: 19g
	" 22	♀	Nyctimene cephalotes	126-22-15-16: 46g
	" 23	♀	Rousettus celebensis	136-31-21-18-46g
	" 24	♀	" "	147-30-24-20: 60g
	" 25	♂	" "	147-30-24-18: 78g
	" 26	♀	Rhinolophid	88-22-13-21: 13g
	" 27	♀	Cynopterus brachyotis	90-7-11-16: 24g
	" 28	♂	" "	102-11-14-16: 32g
	" 29	♀	" "	107-10-14-17: 30g
	" 30	♂	" "	98-11-15-18: 27g
23 July 1973				
	ASE 40	♀	Rousettus celebensis	145-28-24-19: 64g
	" 41	♂	" "	137-26-27-18: 59g
(skull only)	" 42	♂	" "	—-24-25-24: —
	" 43	♀	" "	135-25-23-19: 51g
	" 44	♀	" "	144-30-26-17: 72g
	" 45	♀	" "	144-29-27-19: 66g

	ASE 46 ♀	Rousettus celebensis	130-26-23-19: 48g
	" 47 ♀	" "	129-26-23-18: 53g
	" 48 ♀	" "	140-26-25-20: 65g
	" 49 ♀	" "	135-26-21-19: 68g
	" 50 ♀	" "	125-29-21-20: 40g
	" 51 ♀	" "	141-27-26-20: 65g
(skull only)	" 52 ?	Cynopterus brachyotis	——-——-15-18: ——
	" 53 ♀	Rousettus celebensis	145-30-25-20: 62g
	" 54 ♂	Cynopterus brachyotis	100-8-15-18: 29g
	" 55 ♀	" "	98-8-15-17: 27g
	" 56 ♀	Nyctimene cephalotes	138-26-17-18: 49g
	" 57 ♀	Rousettus celebensis	154-28-25-20: 74g
	" 58 ♂	Cynopterus brachyotis	106-7-16-17: 29g
	" 59 ♀	Rousettus celebensis	136-27-25-19: 48g
	" 60 ♀	Thoopterus nigrescens	130-5-25-18: 60g
	" 61 ♀	Rousettus celebensis	143-25-24-19: 60g
	" 62 ♀	" "	138-29-24-20: 48g
	" 63 ♀	" "	128-21-27-19: 48g
	" 64 ♀	Thoopterus nigrescens	96-4(?)-22-15: 31g
24 July 1973			
	ASE 66 ♂	Cynopterus brachyotis	94-8-12-18: 33g
	" 67 ♀	Rousettus celebensis	129-21-21-18: 49g
	" 68 ♀	" "	137-25-22-18: 78g
	" 69 ♂	Thoopterus nigrescens	118-x-21-17: 57g
	" 70 ♀	" "	128-5(?)-21-19: 70g
	" 71 ♂	Cynopterus brachyotis	102-8-14-18: 30g
	" 72 ♀	Rousettus celebensis	145-26-23-19: 66g
	" 73 ♀	" "	142-28-22-19: 54g
	" 74 ♀	" "	146-28-23-20: 76g
	" 75 ♀	Cynopterus brachyotis	92-8-16-18: 25g

ASE 76 ♀	Rousettus celebensis	149-27-23-19: 67g
" 77 ♀	" "	142-29-23-19: 64g
" 78 ♀	" "	144-25-23-18: 68g

25 July 1973

ASE 85 ♂	Macroglossus	67-x-10-14: 15g
" 86 ♀	Rousettus celebensis	125-24-22-18: 49g
" 87 ♀	Cynopterus brachyotis	90-7-13-14: 27g
" 88 ♂	" "	98-8-14-17: 28g
" 89 ♀	" "	97-10-15-17: 30g
" 90 ♂	Rousettus celebensis	141-29-28-21: 68g
" 91 ♀	" "	145-30-27-20: 64g
" 92 ♀	" "	148-30-28-20: 68g
" 93 ♂	" "	153-33-26-21: 76g
" 94 ♀	" "	150-32-29-18: 65g
" 95 ♀	" "	158-34-27-20: 86g
" 96 ♂	Cynopterus brachyotis	106-6-15-16: 30g
" 97 ♂	Rousettus celebensis	140-22-22-19: 66g
" 98 ♀	" "	146-30-24-19: 64g
" 99 ♂	" "	149-24-25-19: 74g
" 100 ♀	" "	135-25-[illegible]-18: 48g
" 101 ♀	" "	135-21-23-18: 54g
" 102 ♂	" "	144-28-25-18: 72g
" 103 ♀	" "	133-25-25-18: 46g

26 July 1973

ASE 120 ♀	" "	148-28-22-21: 73g
" 121 ♀	" "	145-25-22-20: 68g
" 122 ♀	Nyctimene cephalotes	129-25-16-17: 51g
" 123 ♀	Rousettus celebensis	131-23-21-18: 48g
" 124 ♀	" "	145-24-23-19: 65g
" 125 ♀	" "	146-30-23-21: 56g

ASE	126 ♀	Rousettus celebensis	150-30-27-20: 71g
"	127 ♀	" "	144-24-23-19: 66g
"	128 ♀	" "	150-26-24-19: 70g
"	129 ♂	Cynopterus brachyotis	129-8-15-17: 24g
"	130 ♀	" "	100-10-14-18: 26g
"	131 ♂	" "	110-7-15-17: 32g
"	132 ♀	" "	98-7-16-18: 26g
"	133 ♀	Stylotenium wallacei	143-x-35-27: 130g
(1 young with same no.)	134 ♀	" "	178-x-36-27: 150g

27 July 1973

ASE	148 ♀	Rousettus celebensis	148-30-28-21: 58g
"	149 ♀	" "	154-28-22-20: 70g
"	150 ♂	" "	165-32-27-22: 81g
"	151 ♀	Thoopterus nigrescens	121-x-20-19: 22g
"	152 ♀	Rousettus celebensis	128-24-24-19: 49g
"	153 ♂	Thoopterus nigrescens	128-x-22-20: 79g
"	154 ♀	Rousettus celebensis	137-27-25-20: 47g
"	155 ♀	" "	141-25-21-19: 58g
"	156 ♀	" "	138-28-22-19: 52g
"	157 ♂	Dobsonia	160-23-35-23: 89g
"	158 ♂	Nyctimene cephalotes	133-28-19-18: 47g
"	160 ♀	Rousettus celebensis	133-22-23-19: 61g
"	161 ♀	" "	140-28-27-19: 64g
"	162 ♀	" "	145-28-23-20: 67g
"	163 ♀	Stylotenium wallacei	152-x-36-25-112g
"	164 ♀	Rousettus celebensis	138-24-23-20: 56g
"	165 ♀	" "	143-23-23-19: 66g
"	166 ♀	" "	121-25-20-19: 33g
"	167 ♂	" "	140-27-23-19: 60g
"	168 ♀	Cynopterus brachyotis	103-9-17-19: 31g

ASE	169 ♀	Rousettus celebensis	121-27-21-20: 38g
"	170 ♀	Cynopterus brachyotis	99-8-16-17: 26g
"	171 ♀	" "	104-8-15-18: 28g
"	172 ♀	Thoopterus nigrescens	110-x-20-18: 54g
"	173 ♀	" "	101-x-20-18: 46g
"	174 ♀	Cynopterus brachyotis	98-7-16-18: 26g
"	175 ♀	" "	93-8-16-17: 22g
"	176 ♂	Rousettus celebensis	159-30-25-21: 70g
28 July 1973			
ASE	191 ♂	Thoopterus nigrescens	128-x-20-21: 86g
	~~192 ♀~~	~~Rousettus celebensis~~	~~155-32-24-17: 79g~~
"	206 ♀	Cynopterus brachyotis	total length: 105
"	207 ♀	" "	" " : 107
"	208 ♂	Thoopterus nigrescens	135-x-21-17: 85g
"	209 ♂	" "	130-x-21-19: 80g
"	210 ♀	" "	120-x-20-19: 68g
"	211 ♀	" "	125-x-18-19: 65g
"	212 ♂	Cynopterus brachyotis	total length: 96
29 July 1973			
ASE	217 ♀	Macroglossus	60-x-11-16: 12g
"	218 ♂	Cynopterus brachyotis	99-9-15-16: 34g
"	219 ♀	" "	103-8-?-17: 33g
"	220 ♂	" "	94-9-16-17: 27g
"	225 ♀	Dobsonia	196-25-36-25: 180g
"	226 ♂	Thoopterus nigrescens	124-x-21-19: 80g
"	227 ♂	Dobsonia	178-23-35-26: 110g
"	228 ♀	Rousettus celebensis	145-29-25-20: 58g
"	229 ♀	" "	150-30-24-21: 69g
"	230 ♀	" "	140-28-23-20: 52g

30 July 1973			
ASE 246 ♀	Rousettus celebensis		148-31-25-20: 55g
" 247 ♂	"	"	150-27-22-21: 80g
" 248 ♀	"	"	134-30-22-19: 47g
" 249 ♀	"	"	145-30-24-20: 62g
31 July 1973			
ASE 259 ♀	"	"	110-20-22-19: 30g
" 260 ♀	"	"	130-28-24-20: 38g
" 261 ♀	"	"	140-26-25-19: 52g
" 262 ♀	"	"	135-27-25-19: 50g
" 263 ♂	Pteropid		65-x-11-12: 13g
" 265 ♂	Dobsonia		225-25-41-28: 255g
" 266 ♀	"		202-30-38-29: 190g
" 267 ♀	"		205-27-40-29: 185g
" 268 ♀	Rousettus celebensis		158-30-24-20: 68g
" 269 ♀	"	"	147-28-23-20: 63g
" 270 ♀	"	"	140-27-23-20: 58g
" 271 ♂	"	"	153-30-24-20: 69g
" 272 ♂	"	"	160-30-24-20: 81g
" 273 ♂	"	"	158-27-25-20: 85g
" 274 ♀	"	"	145-30-25-21: 58g
" 282 ♀	"	"	128-28-25-19: 40g
5 August 1973			
ASE 363 ♂	Rhinolophid		81-30-10-20: 8g
11 August 1973			
ASE 418 ♀	Thoopterus nigrescens		109-x-25-18: 44g
15 August			
ASE 482	Rousettus celebensis		skull only
" 483	"	"	"
" 484 ♂	"	"	124-23-24-20: 48g

30 July 1973			
ASE	246 ♀	Rousettus celebensis	148-31-25-20: 55g
"	247 ♂	" "	150-27-22-21: 80g
"	248 ♀	" "	134-30-22-19: 47g
"	249 ♀	" "	145-30-24-20: 62g
31 July 1973			
ASE	259 ♀	" "	110-20-22-19: 30g
"	260 ♀	" "	130-28-24-20: 38g
"	261 ♀	" "	140-26-25-19: 52g
"	262 ♀	" "	135-27-25-19: 50g
"	263 ♂	Pteropid (Nytimene minutus?)	45-x-11-12: 13g
"	265 ♂	Dobsonia	225-25-41-28: 255g
"	266 ♀	"	202-30-38-29: 190g
"	267 ♀	"	205-27-40-29: 185g
"	268 ♀	Rousettus celebensis	158-30-26-20: 68g
"	269 ♀	" "	147-28-23-20: 43g
"	270 ♀	" "	140-27-23-20: 58g
"	271 ♂	" "	153-30-24-20: 69g
"	272 ♂	" "	160-30-24-20: 81g
"	273 ♂	" "	158-27-25-20: 85g
"	274 ♀	" "	145-30-25-21: 58g
"	282 ♀	" "	128-28-25-19: 40g
5 August 1973			
ASE	363 ♂	Rhinolophid	81-30-10-20: 8g

19 August

ASE 523 ♂ Rubrisciurus rubriventer 530-240-74-30
" 524 ♂ Prosciurillus murinus 220-85-33-15: 80g
" 525 ♂ " " 218-90-33-—: 60g
" 529 ♀ Rattus hellwaldii 358-171-44-28: 140g
" 533 ♀ " exulans 257-130-28-17: 38g

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ASE	485 ♀	Rousettus celebensis	142-27-25-21:62g
"	486 ♀	" "	137-23-24-20:64g
"	492 ♀	Pipistrellus	98-40-9-17-tr.6:8g
"	493 ♀	"	97-39-10-16-tr.7:8g
"	494 ♀	"	100-42-11-16-tr.7:8g
"	495 ♀	"	99-45-11-16-tr.7:8g
"	496 ♀	"	95-43-9-16-tr.7:8g

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Data for rodents preserved in fluid

Central Sulawesi, Tomado (1° 19'S, 120° 03'E; southwest shore Lake Lindu), 1000 meters

21 July 1973			
ASE 8 ♂	Rattus chrysocomus rallus		195-96-28-19: 26g
22 July 1973			
ASE 18 ♀	"	marmosurus	380-200-41-24: 112g
" 31 ♀	"	exulans	258-140-28-19: 48g
" 32 ♀	"	"	250-125-27-18: 38g
25 July 1973			
ASE 104 ♀	"	"	241-126-26-16: 34g
" 105 ♂	"	"	271-144-26-18: 40g
" 106 ♀	"	"	245-125-26-17: 37g
" 107 ♂	"	"	260-127-27-17: 40g
" 108 ♂	"	chrysocomus rallus	207-100-31-20: 26g
26 July 1973			
ASE 117 ♀	"	hoffmanni	290-150-38-—: 75g
" 134 ♂	"	exulans	[205]-[80]-28-18: 40g
" 137 ♂	"	"	248-118-27-17: 38g
27 July 1973			
ASE 138 ♀	"	celebensis	478-260-46-26: 285g
" 147 ♀	"	marmosurus	—-185-38-—: —
" 179 ♂	"	exulans	265-141-28-19: 39g
" 185 ♀	"	marmosurus	[237]-[77]-39-23: 75g
28 July 1973			
ASE 190 ♀	Rubrisciurus rubriventer		470-180-67-31: 860g
30 July 1973			
ASE 242 ♂	Rattus exulans		242-123-27-18: 38g
31 July 1973			
ASE 278 ♀	"	"	255-125-27-18: 43g
" 279 ♂	"	"	253-130-27-18: 36g
1 August 1973			
ASE 299 ♂	"	"	166 ———
" 300 ♀	"	hoffmanni	273-138-36-20: 67g

ASE 311 ♂	Rattus mahmosukus	465-254-42-25 : 180 g
2 August 1973		
ASE 324 ♂	" chrysocomus	310-138-40-25 : 105 g
3 August 1973		
ASE 326 ♀	" muschenbroekii	270-140-35-21 : 72 g
" 339 ♂	" "	277-135-37-26 : 59 g
4 August 1973		
ASE 350 ♂	" dominator	510-275-56-30 : 265 g
" 351 ♂	" muschenbroekii	283-135-37-21 : 62 g
" 352 ♂	" chrysocomus	[217]-[70]-36-25 : 59 g
5 August 1973		
ASE 358 ♂	Rubriscirus rubriventer	524-240-77-33 : 775 g
" 360 ♂	Rattus hoffmanni	342-176-43-24 : 130 g
6 August 1973		
ASE 370 ♂	" muschenbroekii	253-115-36-19 : 71 g
9 August 1973		
ASE 396 ♂	" mahmosukus	272-150-33-21 : 34 g
10 August 1973		
ASE 406 ♀	" chrysocomus	———
" 407 ♂	" "	300-145-38-26 : 95 g
13 August 1973		
ASE 444 ♂	" "	306-145-36-23 : 110 g
" 449 ♂	" dominator	510-275-55-32 : 250 g
" 460 ♂	" hellwaldii	368-183-44-27 : 128 g
14 August 1973		
ASE 467 ♂	" muschenbroekii	295-140-36-22 : 98 g
" 468 ♀	" chrysocomus	347-163-39-24 : 153 g
" 474 ♂	" hoffmanni	361-175-41-23 : 135 g
18 August 1973		
ASE 511 ♀	" chrysocomus	298-140-35-23 : 105 g
" 518 ♂	" hellwaldii	[229]-[55]-44-28 : 100 g

Central Sulawesi, Lembo (2 km S Tomado), 1°20' S, 120° 03' E, 1000 m

6 August 1973			
ASE 379	♂	Rattus hellwaldii	310-160-43-25 : 74 g
" 380	♀	" "	335-160-43-26 : 135 g
7 August 1973			
ASE 383	♂	" chrysocomus	320-145-38-26 : 110 g
9 August 1973			
ASE 396	♂	" marmosurus	272-150-33-21 : 34 g
10 August 1973			
ASE 400	♀	" chrysocomus	
" 407	♂	" "	300-145-38-26 : 95 g
13 August 1973			

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Olu, 955 meters (east shore Lake Lindu

14 August 1973		
ASE 506 ♂	Rattus chrysocomus	217-101-31-20
15 August 1973		
ASE 507 ♀	" hoffmanni	337-173-38-23
14 August 1973		
ASE 508 ♀	" "	281-151-34-21
" 509 ♂	" "	271-140-33-18
" 510 ♀	" chrysocomus	257-127-31-21

174

Data for shrews preserved in formalin

Central Sulawesi, Tomado (1° 19' S, 120° 03' E: Southwest shore of Lake Lindu), 1000 meters

27 July 1973
ASE 146

Crocidura nigripes 126-53-14-9: 8 ♀

Central Sulawesi, Lembo (2 km S Tomado), 1° 20' S, 120° 03' E, 1000 meters

7 August 1973
ASE 382

Crocidura nigripes 134-54-15-9: 11 ♀

176

skin, skull, + carcass

#79	532
357	534
378	541
519	549
526	

(awaiting identification)

Specimens with no data

alcoholics

165?

518

542-3

550-555

558-560

563-564

567-568

~~511~~

755

757

778

+ shrew

79

* identifications as per KFK **Bats** 12/1973

Central Sulawesi, Sungai Tokaraku, 12 Km ENE Palili, 1156 meters

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Sept 15

223278 ✓ ASE 582 ♂ Macroglossus 67-X-13-14: 13 g
logochilus logochilus*

Sept 19

223247 ✓ ASE 602 ♂ Cynopterus 107-8-14-18: 30 g
223248 ✓ " 603 ♀ " 101-10-15-18: 25 g
brachyotis brachyotis

Sept 20

223249 ✓ ASE 614 ♂ " 108-10-16-17: 30 g

Sept 21

223255 ✓ ASE 620 ♀ Thoopterus 118-X-21-17: 65 g
nigrescens

Oct 2,

223276 ✓ ASE 675 ♂ Rousettus 143-25-25-20: 70 g
celebensis

Oct. 3

223250 ✓ ASE 678 ♀ Cynopterous 120-15-18-18: 30 g
223256 ✓ " 679 ♀ Thoopterus 125-X-20-19: 70 g

Oct. 4

223257 ✓ ASE 681 ♀ " 123-X-21-19: 70 g
223258 ✓ " 682 ♀ " 126-X-22-18: 70 g

Oct. 5

223251 ✓ " 683 ♀ Cynopterus 98-10-15-17: 25 g

Oct. 6

223259 ✓ " 702 ♂ Thoopterus 125-X-20-18: 60 g
223260 ✓ " 703 ♂ " 120-X-18-17: 60 g
223252 ✓ " 704 ♀ Cynopterus 107-15-14-17: 28 g
223253 ✓ " 705 ♀ " 105-(?)-14-17: 31 g

Saja tidak tahu	- I don't know .....
Maaf, saja punja pikiran lain sekarang.	- I'm sorry, I changed my mind.
Saja salah.	- I made a mistake.
Apa namanja ini dalam bahasa Indonesia ?	- What is this called in Indonesian ?

ini	- this	ja	- yes
itu	- that	tidak	- no
datang	- to come	tidak apa2	- never mind, or it doesn't matter
tiba/sampai	- to arrive		
kembali	- to come back	barangkali	- perhaps

Oct. 6

223279 ASE 706 ♂ Nyctimene? 65-x-8-11:13♀
"pterogodid"

Oct. 7

223254 ASE 714 ♂ Cynopterus 105-8-13-17:30♀
223277 " 715 ♀ Rousettus 146-27-22-17:65♀
223261 " 716 ♀ Thoopterus 123-x-22-17:75♀
223262 " 717 ♀ " 112-x-20-18:65♀
223263 " 718 ♂ " 125-x-21-18:80♀
223264 " 719 ♂ " 120-x-20-17:80♀
223265 " 724 ♀ " 115-x-20-18:65♀

Oct. 8

223266 " 733 ♂ " 122-x-22-18:65♀
223267 " 734 ♂ " 127-x-21-19:75♀
223268 " 735 ♂ " 131-x-19-19:73♀
223269 " 736 ♂ " 128-x-19-18:70♀

Oct. 9

223270 " 746 ♂ " 113-x-20-18:60♀
223280 " 747 ♂ Nyctimene? 48-x-12-11:13♀
223281 " 748 ♂ " ? 46-x-11-12:13♀
223271 " 749 ♀ Thoopterus 111-x-19-18:55♀
223272 " 750 ♂ " 124-x-20-18:75♀
223273 " 751 ♀ " 112-x-20-17:55♀
223274 " 752 ♀ " 117-x-21-18:70♀
223275 " 753 ♂ " 107-x-20-17:50♀

GREETINGS AND USEFUL PHRASES
Salam dan Ungkapan2 Berguna

Selamat pagi	- Good morning,
Selamat siang	- Good afternoon
Selamat sore	- Good afternoon (3-5 PM)
Selamat malam	- Good evening
Selamat djalan	- Good bye (to someone leaving)
Selamat tinggal	- Good bye (when we're leaving)
Sampai bertemu lagi	- Till we meet again.
sila(h)kan, tolong, harap, tjoba	- please
terima kasih	- thank you
Saja tidak bitjara bahasa Indonesia	- I don't speak Indonesian.
Apa saudara mengerti bahasa Inggeris?	- Do you understand English ?
Ada orang jang tahu bahasa Inggeris ?	- Is there anyone who speaks English ?
Bitjaralah pelan2	- Please speak slowly.
Ulanglah lagi itu	- Please repeat that.
Saja tidak mengerti.	- I don't understand.
Saja mau gula sedikit.	- I want some sugar.
Saja perlu bantuan.	- I need help.
Saja ingin pergi sekarang.	- I would like to go now.
Saja tidak mau ini.	- I don't want this.
Saja mau jang lain.	- I want another.
Saja mau itu sadja.	- I want that instead.
Saja suka	- I like .....
Saja tidak suka	- I don't like .....
Saja tahu	- I know .....

Shrews

Central Sulawesi, Sungai Tokaraku, 12 km ENE Palili, 1150 meters

Sept 15

223462 ASE 581 ♂ Crocidura elongata 210 - 119 - 23 - 13 : 129

Oct 5 → 484 ♂ " " 205 - 114 - 22 - 12 : 139

223463

Oct. 8 (4,500 ft)

ASE 732 ♀ Crocidura elongata 217 - 120 - 21 - 11 : 139

223464

Djuli	- July
Agustus	- August
September	- September
Oktober	- October
Nopember	- November
Desember	- December
bulan jang akan datang	- next month
bulan jang lalu	- last month
tahun jang akan datang	- next year

Djam
Time

Djam berapa?	- What time is it?
Djam satu siang	- It's 1.00 P.M.
Djam satu malam	- It's 1.00 A.M.
Djam setengah tiga	- It's 2.30 P.M.
Djam 12 siang	- It's noon.
Djam 12 malam	- It's midnight.
Djam 7 kurang seperempat	- It's 18.45.
Djam 7 seperempat pagi	- It's 7.15 A.M.
Hari sudah tinggi	- It's getting late (morning)
Malam sudah larut	- It's getting late (evening)
Djangan bangunkan saja terlalu tjepat	- Don't wake me too early.

rec'd 12/73

Rattus dominator

611	575	612
654	600	624
590	670	~~56~~
584	628	585
580	601	653
576	631	659
700	572	604
	690	583
		674

Rattus celebensis

646 673
579

Rattus callitrichus

626

recv'd 12/73

√ 779

Rattus makmosukus

√√619 √599 √689 √741
√√635 √645 √701 754 not in Cam
√√615 √638 √720 √775
√√652 √574 √723
√√634 √649 √729
√√658 √692
√√613 √640 √730
√√629 √625 √742
√√641 √680
√√630 √688

Rattus celebensis

√760, 774 √√

Rattus penitus

√√766

Rattus dominator

773 728

743 769

744

skulls in this can

rec'd 12/73

Rattus dominator

713 – skeletons only

780 ✓✓

670 ✓✓

Rattus hoffmanni

561

546 ✓✓

545 ✓✓

Rattus hellwaldii

✓✓566

✓✓556

✓✓531

544 ✓✓

459 ✓✓

565 ✓✓

530 ✓✓

Rattus marmosurus

655 ✓✓

547 ✓✓

562 ✓✓

557 ✓✓

Rattus exulans

✓✓535

Rattus celebensis

✓✓520

✓✓548

Rattus chrysocomus

✓✓313

skulls in this
can

rec'd 12/73

Rattus hoffmanni

657
642
573
607
578
591
616
687
763

598
592
606
651
636
605
686
708
764

709
710
740
755
739
765
777

Rattus chrysocomus

609
595
621
632
622
618
610
617
685

597
608
593
588
577
623
637
648
672

699
693
698
694
695
731
745
726
768

Rattus hamatus

697
758
767

779

skulls in this
can

Rats

Central Sulawesi, Sungai Tokararu, 12 km ENE Palili, 1150 meters (Locality will remain same, but elevation will change for some entries below).

Sept 14

223361 ✓ ASE 586 ♂ Rattus dominator 305-155-42-25:60g

Sept. 17

223362 ✓ ASE 587 ♀ " " (eaten by predator)

Sept 19

223321 ✓ ASE 594 ♂ " chrysocomus 260-116-39--:80g

223322 ✓ " 596 ♀ " " 286-130-37-24:105g

Sept. 23

223323 ✓ ASE 627 ♂ " " 197-96-30--:30g

Sept. 24

223405 ✓ ASE 633 ♀ " hoffmanni 262-130-35--:30g

Sept. 24

223324 ✓ ASE 639 ♂ " chrysocomus 172-76-27-20:25g

Sept. 27

223406 ✓ ASE 643 ♀ " hoffmanni 310-153-37-22:118g

223325 ✓ " 644 ♂ " chrysocomus 285-130-36-23:105g

Sept. 28

223407 ✓ ASE 647 ♀ " hoffmanni 325-165-38--:125g

Sept. 29

223451 ✓ ASE 656 ♂ " makmosukus 351-184-40-22:85g

Oct. 1

223363 ✓ ASE 671 ♂ " dominator 432-230-51-28:180g

Oct. 3

223452 ✓ ASE 676 ♂ " makmosukus 450-242-45-22:220g

223408 ✓ " 677 ♂ " hoffmanni 381-193-42-23:170g

Hari
Days

Senin	- Monday
Selasa	- Tuesday
Rabu	- Wednesday
Kemis	- Thursday
Djumat	- Friday
Sabtu	- Saturday
Minggu	- Sunday
minggu jang akan datang	- next week
Senin jang akan datang	- next Monday
Selasa malam	- Tuesday night, (but)
malam Selasa	- Monday night
malam ini	- tonight
kemarin malam, Tadi malam	- last night
kemarin	- yesterday
besok	- tomorrow
hari ini	- today
waktu siang	- during the day

Bulan
Months

Djanuari	- January
Pebruari	- Febuary
Maret	- March
April	- April
Mei	- May
Djuni	- June

Oct. 5

223290 ✓ ASE 691 ♀ Rattus celebensis (3800 ft) 477-270-50-27 : 220g

Oct. 7

ASE 707 ♂ " penitus (4340 ft) 346-175-44-27 : 165g

223453 ✓ " 711 ♂ " marmosurus (3800 ft) 482-256-45-23 : 245g

223454 ✓ " 712 ♀ " " (3950 ft) 481-261-42-X : 210g

223360 " 713 ♀ " dominator (4000 ft) Skeleton only

223364 ✓ " 721 ♂ " " (4300 ft) 471-264-57-29 : 175g

Oct. 8

223326 ✓ ASE 725 ♂ " chrysocomus (3940 ft) 250-115-34-23 : 70g

223365 ✓ " 727 ♂ " dominator (4520 ft) 449-240-55-30 : 180g

Oct. 9

223457 ✓ ASE 737 ♀ " muschenbroekii (4150 ft) [174]-[43]-35-21 : 70g

223327 ✓ " 738 ♂(?) " chrysocomus (3800 ft) 166-76-27-15 : 19g

Oct. 10

223328 ✓ ASE 754 ♀ " chrysocomus (3900 ft) 225-116-33-21 : 60g

[illegible] ASE 756 ♂ " hoffmanni (4150 ft) 268-127-38-21 : 93g

Oct. 11

223329 ✓ ASE 761 ♀ " chrysocomus (3800 ft) 175-76-28-19 : 26g

223409 ✓ " 762 ♀ " hoffmanni (4150 ft) 282-140-36-20 : 100g

223455 ✓ " 770 ♀ " marmosurus (4100 ft) 500-260-46-24 : 235g

Oct 12

223410 ✓ ASE 771 ♀ " hoffmanni (4300 ft) 275-137-38-22 : 88g

223458 ✓ " 772 ♀ " muschenbroekii (4250 ft) 225-110-33-18 : 55g

Oct 13

223459 ✓ ASE 776 ♂ " muschenbroekii (4260 ft) 285-130-38-X : 93g

Oct 14

223411 ✓ ASE 781 ♀ " hoffmanni (3950 ft) 293-145-38-21 : 90g

223412 ✓ " 782 ♀ " " (4150 ft) 308-150-39-22 : 110g

Oct 15

223291 ✓ ASE 783 ♀ " celebensis (4200 ft) 421-225-48-25 : 195g

223366 ✓ " 784 ♀ " dominator (3940 ft) 526-292-58-30 : 335g

223413 ✓ " 785 ♀ " hoffmanni (3920 ft) 360-170-39-22 : 175g

223414 ✓ " 786 ♂ " " (4050 ft) 322-175-41-23 : 125g

223415 ✓ " 787 ♀ " " (4150 ft) 330-162-39-24 : 140g

223456 ✓ " 788 ♂ " marmosurus (3980 ft) 441-236-46-23 : 178g

Kata ganti
Pronouns

saja/aku	-	I
saudara	-	you (see separate sheet)
ia/dia	-	she/he/it
kami)excluding person addressed kita)including person addressed *	-	we
mereka	-	they

Kata depan
Prepositions

ke/kepada	-	to
kepasar	-	to the market
kepada saja	-	to me
kepada dia	-	to him
untuk/buat	-	for
untuk mereka	-	for them
buat besok	-	for to morrow
di	-	in or at
dirumah	-	in the house
didompet saja	-	in my purse
di Indonesia	-	in Indonesia
di Kedutaan Amerika	-	at the American Embassy
dipesta	-	at the party
dihotel	-	at the hotel
dari	-	from
dari sdr. Amat	-	from Mr. Amat
dari Bali	-	from Bali
dari kita	-	from us
dari dia	-	from her*
dengan	-	with/by
dengan kami	-	with us
dengan mobil	-	by car
dengan pos udara	-	by air mail
diatas	-	on
diatas medja	-	on the table
diatas kepala	-	on the head
diatas atap	-	on the roof

Central Sulawesi, between Sodaonto and Danau Lindu,
3500 ft., 2 September, 1973

223260 ✓ ASE 569 ♀ Rattus muschenbroekii 295-140-34-21:759

Central Sulawesi, Tomado (same locality data as other "Tomado" entries)

Sept. 11, 1973

223416 ✓ ASE 571 ♀ Rattus hoffmanni 345-180-42-23:5♂9

Oct 30, 1973

Dear Pat,
when you come in Monday could you check
some specimens

HOW TO SAY "PLEASE" IN INDONESIAN

A. Silahkan duduk sebentar - Please sit down a moment.

Silahkan masuk. - Please come in.

Silahkan pakai bahasa Indonesia. - Please use the Indonesian language.

Help

B. Tolong buatkan susu baji. - Please make the baby's milk.

Tolong tjari mainan dia. - Please find his toy.

Tolong beli kentang 3 kg. - Please buy 3 kilos of potatoes.

Hope

C. Harap bitjara pelan2. - Please speak slowly.

Harap telepon lagi nanti. - Please call back later.

Harap tunggu disini. - Please wait here.

Try

D. Tjoba bawa makanan itu kesini. - Please bring the food here.

Tjoba tutup lemari itu. - Please close the cupboard.

Tjoba tjutji itu dulu. - Please wash that first.

E. Add Suffix - lah to a Verb:

Duduklah sebentar. - Please sit down a moment

Masuklah. - Please come in.

Buatkanlah susu baji. - Please make the baby's milk.
Tjarilah mainan dia. - Please find his toy.
Bitjaralah pelan2. - Please speak slowly.

Teleponlah lagi nanti. - Please call back later.

Bawalah makanan itu kesini. - Please bring the food out here.

Tutuplah lemari itu. - Please close the cupboard.

According the the field notes, there are 8 specimens unaccounted for:

they are:

Rousettus celebensis ~~497~~ ~~496~~
~~539~~ ~~1500~~

Thoopterus nigrescens ~~628~~
~~1489~~

Cynopterus brachyotis ~~1754~~ (#71 has been catalogued specimen is actually Rousettus)
~~1240~~

In this jar are 11 specimens with unknown # or wrong #.

7 Rousettus - (4 missing, #71 - catalogued as Cynopterus, and 2 #127 - one was catalogued)

2 Cynopterus - (already catalogued, but incorrect)

2 Thoopterus - (numbers don't match)

2/11 - missing 2 Cynopterus - 2 extras with no number

assigned the numbers arbitrarily { 1662 + 1983

Oha

Central Sulawesi, Sungei ~~Oha~~ Kecil, 290 meters

1 August 1974

224480	ASE 1653	♀	Rousettus	150-28-25-19: 70g
224481	" 1654	♀	"	151-26-23-19: 80g
224482	" 1655	♀	"	150-23-23-19: 70g
224483	" 1656	♀	"	151-28-25-17: 70g
224484	" 1657	♀	"	145-25-24-17: 70g

2 August

ASE 224324	1659	♂	Cynopterus	100-8-14-16: 30g
" 224325	1660	♀	"	93-7-15-16: 21g
" 224326	1661	♂	"	98-7-15-16: 27g
" 224327	1662	♂	arbitrarily assigned no. - 2 specimens with no no. 2 extra nos. (see 1983)	100-8-15-15: 31g
" 224328	1663	♀	"	94-7-15-16: 25g
" 224329	1664	♂	"	110-9-16-17: 35g
" 224330	1665	♀	"	102-8-15-16: 34g
" 224331	1666	♂	"	104-7-17-16: 32g
" 224332	1667	♂	"	95-7-14-15: 26g
" 224333	1668	♀	"	102-8-15-15: 28g
" 224334	1669	♀	"	87-6-15-15: 23g
" 224335	1670	♀	"	97-8-15-15: 22g
" 224336	1671	♂	"	95-9-16-17: 23g
" 224337	1672	♂	"	88-6-16-14: 20g
" 224485	1673	♀	Rousettus	150-28-25-18: 75g
" 224486	1674	♀	"	156-33-24-19: 70g
" 224487	1675	♀	"	155-27-24-18: 70g
" 224488	1676	♀	"	130-22-22-17: 50g

3 August

ASE 224338	1680	♂ Cynopterus	108-9-17-16: 30g
" 224339	1681	♂ "	98-7-15-16: 27g
" 224340	1682	♂ "	105-12-15-16: 30g
" 224341	1683	♀ "	106-8-16-17: 35g
" 224342	1684	♀ "	100-6-15-17: 25g
" 224343	1685	♀ "	93-7-16-15: 20g
" 224489	1686	♀ Rousettus	145-30-23-18: 70g
" 224490	1687	♂ "	135-24-24-19: 50g
" 224491	1688	♀ "	153-30-25-19: 60g
" 224492	1689	♂ "	152-27-27-20: 70g
" 224493	1690	♀ "	172-26-25-19: 65g
" 224494	1691	♀ "	134-26-23-20: 56g
" 224495	1692	♀ "	147-28-22-18: 65g
" 224496	1693	♀ "	145-25-24-18: 75g
" 224497	1694	♀ "	141-28-23-19: 55g

4 August

ASE 224344	1696	♀ Cynopterus	94-8-13-15: 21g
" 224498	1697	♀ Rousettus	140-24-24-19: 55g
" 224345	1698	♀ Cynopterus	100-7-15-16: 28g
" 224346	1699	♂ "	105-10-16-17: 30g
" 224347	1700	♂ "	102-10-16-17: 31g
" 224499	1701	♀ Rousettus	153-30-24-17: 65g
" 224500	1702	♀ "	148-27-23-19: 60g
" 224501	1703	♀ "	142-25-23-18: 62g

5 August

" 224579	1710	♀ Bat → Myotis wekeri (as per KFK)	112-53-13-20 (tr. 9): 13g
" 224502	1712	♀ Rousettus	140-26-25-19: 58g
" 224348	1713	♂ Cynopterus	105-9-17-17: 30g

5 August				
✓ ASE	1714 224349	♂	Cynopterus	95 - 8 - 16 - 15 : 26 g ~~155 - 9 - 17 - 17 : 30 g~~
✓ "	1715 224350	♂	"	100 - 8 - 15 - 15 : 25 g
one weight this no. arbitrarily				
" 224351	1716	♂	"	95 - 7 - 15 - 16 : 25 g
✓ ✓ " 224352	1717	♂ 2 with this no.	"	100 - 8 - 15 - 17 : 25 g
✓ " 224353	1718	♂	"	95 - 10 - 16 - 17 : 21 g
✓ " 224354	1719	♀	"	93 - 8 - 17 - 16 : 22 g
✓ " [redacted] 224503	1720	♀	Rousettus	130 - 29 - 25 - 18 : 44 g
6 August				
✓ ASE 224504	1723	♂	Rousettus	150 - 25 - 24 - 20 : 70 g
✓ " 224505	1724	♀	"	143 - 29 - 26 - 19 : 53 g
✓ " 224506	1725	♀	"	149 - 28 - 25 - 18 : 70 g
✓ " 224355	1726	♂	Cynopterus	95 - 7 - 15 - 17 : 28 g
✓ " 224356	1727	♂	"	102 - 8 - 16 - 17 : 30 g
✓ " 224357	1728	♂	"	102 - 8 - 18 - 17 : 30 g
✓ " 224358	1729	♂	"	100 - 10 - 16 - 17 : 25 g
✓ " 224359	1730	♀	"	100 - 9 - 17 - 17 : 30 g
✓ " 224360	1731	♀	"	95 - 7 - 16 - 16 : 23 g
✓ " 224361	1732	♀	"	107 - 7 - 17 - 17 : 32 g
7 August				
✓ ASE 224362	1736	♂	Cynopterus	103 - 5 - 16 - 17 : 30 g
✓ " 224507	1737	♂	Rousettus	154 - 29 - 24 - 20 : 70 g
✓ " 224508	1738	♀	"	150 - 30 - 26 - 19 : 60 g
✓ " 224509 tag says 1-35	1739	♀	"	135 - 25 - 24 - 19 : 53 g
✓ " 224510	1740	♀	"	140 - 28 - 25 - 19 : 45 g
✓ " 224511	1741	♀	"	145 - 31 - 25 - 20 : 50 g
✓ " 224512	1742	♂	"	155 - 28 - 25 - 20 : 70 g
" ✓ 224513	1743	♂	"	146 - 26 - 24 - 20 : 75 g
✓ " 224363	1744	♂	Cynopterus	97 - 8 - 16 - 17 : 25 g
✓ " 224364	1745	♀	"	99 - 7 - 16 - 17 : 25 g
✓ " 224365	1746	♀	"	84 - 7 - 15 - 17 : 15 g

4 Sept.

224438 ✓ 1967 ♂ Thropterus 125-x-19-18: 85 g

224412 ✓ 1968 ♂ Cynopterus 96-6-13-16: 25 g

5 Sept.

224413 ✓ 1971 ♀ " 102-8-16-17: 25 g

224414 ✓ 1972 ♀ " 90-10-14-15: 19 g

8 August			
ASE 224365	1748	♀ ~~Tiny bat~~ Chironax (KFK)	68 - x - 10 - 12 : 14 g
" 224366	1754	♀ Cynopterus	100 - 7 - 15 - 17 : 38 g
" 224367	1755	♂ "	95 - 7 - 15 - 17 : 30 g
" 224368	1756	♂ "	96 - 8 - 16 - 15 : 25 g
9 August			
ASE 224369	1759	♀ Cynopterus	100 - 7 - 16 - 18 : 30 g
" 224370	1760	♀ "	110 - 10 - 17 - 18 : 40 g
" 224371	1761	♀ "	110 - 9 - 18 - 17 : 35 g
" 224372	1762	♂ "	98 - 10 - 17 - 15 : 25 g
" 224514	1763	♀ Rousettus	148 - 25 - 25 - 20 : 75 g
10 August			
ASE 224470	1766	♂ ~~Myotimene~~ Chironax (as per KFK)	68 - x - 11 - 11 : 10 g
" 224515	1767	♀ Rousettus	136 - 27 - 25 - 18 : 55 g
" 224516	1768	♀ "	145 - 28 - 25 - 19 : 62 g
" 224517	1769	♀ "	146 - 28 - 25 - 18 : 72 g
" 224373	1770	♀ Cynopterus	100 - 5 - 16 - 17 : 30 g
" 224374	1771	♂ "	98 - 9 - 17 - 17 : 28 g
" 224375	1772	♂ "	88 - 10 - 15 - 15 : 16 g
11 August			
ASE 224471	1776	♂ ~~Myotimene~~ Chironax (KFK)	67 - x - 11 - 12 : 11 g
" 224472	1777	♂ "	68 - x - 11 - 12 : 12 g
" 224473	1778	♀ "	64 - x - 11 - 12 : 11 g
" 224518	1782	♀ Rousettus	147 - 29 - 25 - 19 : 65 g
" 224376	1783	♂ Cynopterus	98 - 9 - 16 - 16 : 30 g
" 224377	1784	♂ "	108 - 12 - 17 - 19 : 30 g
" 224378	1785	♂ "	95 - 7 - 16 - 16 : 25 g
" 224379	1786	♂ "	96 - 7 - 16 - 15 : 20 g

26 Aug.

✓1925 ♂ 224393 Cynopterus 103-5-16-18: 30g
✓1926 ♂ 224394 " 110-12-17-16: 31g
✓1927 ♀ 224395 " 105-5-15-16: 43g
✓1928 ♀ 224396 " 105-8-15-18: 40g
✓1929 ♀ 224397 " 90-8-15-16: 22g

27 Aug

✓1932 ♀ 224398 " 96-10-15-16: 22g
✓1933 ♂ 224399 " 86-7-14-16: 20g
224539 ✓1934 ♂ Rousettus 146-25-21-18: 77g
✓1935 ♂ 224436 Thoopterus 120-x-22-21: 71g
✓1936 ♀ 224400 Cynopterus 92-6-16-16: 22g
✓1937 ♀ 224401 " 116-11-16-17: 35g
✓1938 ♀ 224402 " 91-8-14-16: 21g

28 Aug.

✓1940 ♀ 224403 tag says 1-40 " 105-11-15-17: 32g

29 Aug

224476 ✓1942 ♂ ~~small bat~~ Chiroptera (KFK) 63-x-11-12: 11g
224477 ✓1943 ♂ " 63-x-10-12: 12g
✓1944 ♀ 224404 Cynopterus 100-9-15-17: 25g
✓1945 ♀ 224405 " 108-10-16-17: 42g
✓1946 ♂ 224437 Thoopterus 128-x-20-17: 90g

31 Aug.

✓1951 ♂ 224406 Cynopterus 103-10-13-17: 32g
✓1952 ♀ 224407 " 95-10-15-16: 25g

1 Sept

✓1955 ♀ 224408 " 106-10-15-18: 35g

2 Sept

224540 ✓1959 ♀ Rousettus 154-29-23-18: 75g
✓1960 ♂ 224409 Cynopterus 98-9-14-17: 27g

3 Sept.

✓1961 ♀ 224410 " 99-10-16-17: 23g
✓1962 ♀ 224411 tag not clear " 104-9-15-17: 40g
224541 ✓1963 ♀ Rousettus 146-21-22-19: 62g

12 August

ASE 224379	1791	♂ Rousettus	157-34-26-18: 78g
" 224380	1792	♀ Cynopterus	111-8-15-16: 28g
" 224520	1793	♀ Rousettus	147-25-23-17: 72g
" 224521	1794	♂ "	147-27-24-19: 75g
" 224381	1795	♀ Cynopterus	104-9-15-16: 30g
" 224522	1796	♀ Rousettus	148-25-24-18: 62g
" 224523	1797	♀ "	144-27-20-18: 58g
" 224524	1798	♀ "	140-23-23-18: 58g

13 August

224525	1804	♀ Rousettus	130-23-22-19: 45g
224526	1805	♀ "	145-25-23-19: 70g
224527	1806	♀ "	137-24-22-17: 57g
224422	1807	♀ Thoopterus	125-x-21-17: 75g
224528	1808	♀ Rousettus	132-25-22-19: 62g
224529	1809	♀ "	140-22-20-18: 55g
224530	1810	♀ "	140-25-23-18: 48g

14 Aug.

224474	1816	♂ ~~small bat~~ Chironax	65-x-11-12: 10g
wrong # 224531	1817	♀ Rousettus	151-28-24-17: 65g
224532	1818	♂ "	149-30-24-18: 60g
224382	1819	♂ Cynopterus	90-5-14-16: 21g
224383	1820	♀ "	105-9-15-17: 35g
224533	1821	♀ Rousettus	154-28-22-18: 69g

15 Aug

224534	1833	♂ "	147-25-21-18: 68g
224423	1834	♂ Thoopterus	125-x-21-19: 85g
224424	1835	♂ "	127-x-21-18: 85g
no # 224425	1836	♂ "	128-6-21-18: 69g

16 Aug

224426	1842	♂ "	120-x-21-18: 72g

17 Aug.

224475 ✓1847 ♂ ~~small bat~~ Chiroptera 80-x-11-12-11g

✓1848 224384 ♂ Cynopterus 96-7-15-17: 25g

224535 ✓1849 ♀ Rousettus 152-27-22-18: 74g

18 Aug.

✓1861 224385 ♂ Cynopterus 98-8-15-17: 26g

✓1862 224477 ♂ Thoopterus 130-x-21-19: 81g

✓1863 224478 ♂ " 120-x-21-18: 70g

✓1864 224429 ♀ " 121-x-21-18: 69g

✓1865 ♀ 224430 " 119-x-20-18: 65g

20 Aug.

✓1879 ♂ 224431 " 123-x-21-18: 80g

✓1880 ♀ 224432 " 116-x-19-19: 65g

224536 ✓1881 ♀ Rousettus 143-24-22-19: 62g

✓1882 ♀ 224433 Thoopterus 112-x-22-17: 65g

✓1883 224386 ♂ Cynopterus 102-x-15-17: 29g

21 Aug.

✓1894 224387 ♂ Cynopterus 112-8-16-18: 27g

22 Aug.

Nyctimene cephalotes (as per KFK)

224536 ✓1903 ♀ ~~small bat~~ Nyctimene 128-20-16-18: 45g

224537 ✓1904 ♀ Rousettus 132-25-22-19: 45g

23 Aug.

224538 ✓1909 ♀ " 146-26-24-19: 67g

24 Aug.

✓1913 ♂ 224434 Thoopterus 121-x-21-18: 80g

✓1914 ♀ 224435 " 107-x-18-17: 59g

✓1915 ♂ 224388 Cynopterus 100-5-16-15: 25g

25 Aug.

✓1916 ♂ 224389 " 105-9-14-16: 30g

✓1917 ♀ 224390 " 107-10-15-18: 36g

✓1918 ♀ 224391 " 98-10-17-18: 27g

✓1919 ♀ 224392 " 111-10-15-16: 36g

Central Sulawesi: Sungai Oha Kecil; 290 m.

RATS

5 August					
ASE 1705	224998	♀	Rattus marmosurus		271-150-33-19: 45g
8 August					
ASE 1749	224909	♀	"	hellwaldii	362-173-45-28: 190g
10 August					
ASE 1765	225019	♂	"	muschenbroekii	278-131-36-21: 90g
" 1775	224910	♂	"	hellwaldii	278-132-40-24: 70g
11 August					
ASE 1781	224911	♂	"	"	258-125-39-24: 45g
12 August					
ASE 1802	224912	♀	"	"	[275]-[65]-45-28: 185g
13 August					
1812	224913	♀	"	hellwaldii	395-178-46-29: 225g
14 Aug.					
1829	224914	♂	"	"	398-190-48-28: 185g
19 Aug.					
(1300 ft) 1874	224689	♂	"	chrysocoma	300-140-37-23: 85g
" 1875	224690	♂	"	"	291-121-35-23: 110g
21 Aug.					
(1500 ft) 1884	224691	♀	"	"	282-126-37-24: 105g
28 Aug.					
1941	224999	♀	"	marmosurus	[425]-[215]-44-23: 165g

no tag

SQUIRREIS

9 August

ASE 1757 224589 ♀ Prosciurillus murinus 252-105-36-15: 90g

19 Aug.

1867 224590 ♂ " " 200-65-36-14: 95g

+ 2 young of 1733

LEER

Rattus chrysocomus

1907 1905 1901
1911 1921
1957

Rattus hoffmanni

1828

Rattus marmosurus

1912
1747

Rattus hellwaldii

1920 1910 1924
1923 1931 1930
1939 1922 1947
1949 1953 1954
1956 1958 1800
1964 1965 1969
1970

Rattus dominator

1948

Rattus celebensis

1964

30 skulls

SKULLS

IN

CAN #3

Rattus macmosukus

1822 1846

Rattus hoffmanni

1860 1868

Rattus hellwaldii

1837 1843 1850
1895 1764 1774
1899 1897 1908
1896

Rattus chrysocomus

1841 1832 1824 1839
1859 1854 1840 1826
1844 1831 1857 1866
1871 1878 1856 1870
1855 1869 1853 1873
1888 1892 1885 1877
1890 1891 1902 1900
1906 1889 1852

Rattus celebensis

1851

Rattus dominator

1876

Rattus adspersus

1858 1845 1838

Proscinkillus mukinus

1887 1877
1886 1898

Rubrisciurus rubriventer

1893

55 skulls

PATIENT SHEETS

NAME:

AGE:

PATIENT #:

SEX:

DURATION OF DIARRHEA:

AMOUNT OF DIARRHEA:

VOMITING:

BP:

P:

skulls in this box #2

Echiothrix
2327

Rattus dominator
2313 2339
2312 2364
2338 2198
2330
2337
2349

Rattus celebensis
2326 2347

Rattus sp.
2322
2387
2398

Rattus hellwaldii
2271 2262 2359
2341 2334 2342
2366 2292
2333 2305
2365 2369

Rattus hoffmanni
2258
2386

Hyosciurus
2348

Rattus chrysocomus
2340
2353
2376
2332

Rattus muschenbroekii
2393

Rattus dollmani
2360

+ 2310
(R. callitrichus)

37 skulls

Rattus chrysocomus

2110 2168
2109 2175
2169 2173
2176 2174
2179

Rattus dominator

2081 2133
2127 2153
2117 2156
2118 2143

Rattus hellwaldii

2114
2138
2137
2140

Echiothrix

2124

Rattus sp.

2116

Rattus marmosurus

2134
2164
2130

Prosciurillus leucomus

2119

Rattus musschenbroeki

2157

Rattus dolmanni

2178

Rattus hoffmanni

2128 2126
2159 2160
2158 2177
2152 2151

375 skulls

Fuck you

Hyosciurus
2293

Rattus dominator
2232 [redacted]
2247 2252
2246 2264
2296 2298
2299 2306
2309

Rattus hellwaldii
2253
2263
2950

Rattus muschenbroekii
2259 2294

Rattus sp.
2250 2307
2260
2302

Rattus hoffmanni
2248
2308

Rattus dollmani
2283
2284

Rattus chrysocomus
2251
2282
2297

Rattus marmosurus
2274

Rattus celebensis
2301 2249

Crunomys sp.
2280

Prosciurillus murinus
2265 2303
2266

Prosciurillus leucomus
2281

35 skulls

2078
2139
2161

Rubriscirus rubriventer

1789 1758

Proscirillus murinus

1709

Rattus marmosurus

Rattus hellwaldii

1773 1679 1830
1658 1811 1651
1704 1801 1813
1803 1814 1790
1779 1695 1780

Rattus marmosurus

1799 1815
1678 1733
1711 1722

Rattus dominator

1788

Rattus musschenbroekii

1650

Rattus chrysocomus

1823 1752
1827 1825
1751

Rattus adspersus

1649

Rattus hoffmanni

1706 1721
1708 1750
1677 1735
1707 1734

40 skulls

rillia ovalis - Celtis

tree with tarnished colored bark,
-te leaves with alternate leaflets.
and texture of bark resembles
fruit tree, and like size & shape
ositions of leaves. These trees
les and straighter, but
ervice resembles for my
but also from [illegible]
flakes off in [illegible]

Shell Rock
Conn #1
[illegible]

Rattus chrysocomus

1975	1986	1992
1979	1987	2001
1974	1976	1997
1977	1996	1999
1978	1991	2000
2002	2003	2010
2017	2004	2007
2020	2008	2031
2022	2032	2028
2009	2019	2018
2021	2013	1998
2015	2014	2041

Rattus dominator

1980
2025
2038

Rattus muschenbroekii

1985
1984

Rubrisciurus rubriventer

1995 2033
2006

Rattus hoffmanni

2012
2040

Rattus hellwaldii

2034
2039

Rattus sp.

2051

Prosciurillus leucomus

2037

47 skulls

(incomplete)

skulls in
this can

Kepala Kepala
(Blake Satu)

Rattus mammosurus

2183
2182
2220

Rattus hellwaldii

2108 2078
2120 2139
2199 2228

Rattus chrysocomus

2161 2195
2204 2196
2197 2204
2203 2208

Rattus dominator

2193 2230
2200 2231
2205 2234
2207 2235
2216

Rattus callitrichus

2192

Prosciurillus murinus

2224

Prosciurillus leucomus

2194 2223

Hyosciurus

2225

Rattus hoffmanni

2211 2215
2209 2222
2229 2241

Rattus dolmanni

2236
2242

39 skulls

~~2098~~

Rattus chrysocomus

2026 2016 2045
2011 2029 2058
2030 2042 2043
2027 2044 2046
2055 2057 2085
2086 2067 2105
2099 2106 2107
2098

Rattus dominator

2049 2091
2076 2093
2083 2101

Rattus sp.

2073
2090
2100

Rattus marmosurus

2052 2064 2077
2065 2048 2104

Rattus hoffmanni

2054 2063
2075 2074

Rattus celebensis

2053

Rattus hellwaldii

1993
2069
2080
2087

Prosciurillus murinus

2062

Prosciurillus leucomus

2059

~~Rattus sp.~~

~~2073 2090 2100~~

45 skulls

368

should in
this case.

identification by GGM correct
↑
BATS: SKULL ONLY = 42, 52, 482, 483,

(Recv'd 9/73)

Contents of This Box (I hope)

X = SKIN + skull
✓ = carcass in alcohol

Macroglossus lagochilus lagochilus
367 X ✓
521 ✓ X

Rattus chrysocomus
7 X ✓ 361 X ✓
115 X ✓ 366 X ✓
80 X ✓ 326
5 X ✓ 329 X ✓
13 X ✓ 109 X ✓
143 X 342 X ✓
275 X ✓
325 X ✓ 236 ✓ X
118 X ✓

Nyctimene cephalotes cephalotes
258 X ✓
257 X ✓
240 X ✓

Stylocteniuum wallacei
426 ✓ X
427 X ✓
264 X ✓
461 X ✓

Pteropus alecto alecto
356 X ✓
355 X ✓

Dobsonia exoleta
213 X ✓
214 X ✓
224 X ✓
221 X ✓
223 X ✓
283 X ✓
222 X ✓
325 (225 = alcoholic Dobsonia)
239 ✓ X

Cynopterus brachyotis brachyotis
238 X ✓
256 X ✓
285 X ✓
237 X ✓
369 X ✓
387 X ✓
417 X ✓
368 X ✓
362 X ✓
514 X ✓

Rattus hellwaldii
412 X ✓

Rousettus celebensis
243 ✓ X 441 X ✓
295 X 384 X ✓
310 ✓ X 202 X ✓
203 ✓ X 297 X ✓
245 ✓ X 289 X ✓
244 X ✓ 464 X ✓
296 X ✓ 446 X ✓
288 X ✓ 298 X ✓
192 X ✓ 201 X
197 ✓ ✓ 293 X ✓
292 X ✓ 294 X ✓
286 X ✓ 438 X ✓
291 X ✓ 439 X ✓
198 X ✓ 498 X ✓
440 X ✓ 499 X ✓
415 X ✓ 500 X ✓
204 X ✓ 502 X ✓
437 ✓ X 503 X ✓
290 X ✓ 517 X ✓
287 X ✓ ~~[illegible]~~
200 X ✓ 514 *
445 X ✓ 539 X ✓
205 X ✓ 522 X ✓
429 ✓ X 504 ✓ X
436 X ✓
428 X ✓
389 X ✓
463 X ✓
199 X ✓
416 X ✓

(*514 = Cynopterus)

Thoopterus nigrescens
385 X ✓
241 X ✓
284 X ✓
254 X ✓
386 X ✓
481 X ✓
414 X ✓
255 X ✓
435 X ✓
480 X ✓
253 X ✓
442 X ✓
462 X ✓
501 X ✓
515 X ✓
505 X ✓
516 X ✓

Rattus muschenbroekii
488 X ✓
315 X ✓

...ntifications of bat ...ies as per KFK

✓ = SKIN

Rattus hoffmanni	Rattus exulans	
472 ✗ ✓	394 ✗ ✓	307 ✗ ✓
65 ✗ ✓	181 ✗ ✓	302 ✗ ✓
338 ✗	345 ✗ ✓	305 ✗ ✓
473 ✗ ✓	372 ✗ ✓	281 ✗ ✓
	388 ✓	478 ✗ ✓
	347 ✗ ✓	277 ✗ ✓
	178 ✗ ✓	177 ✗ ✓
	453 ✗ ✓	335 ✗ ✓
	196 ✗ ✓	345 ✗ ✓
	304 ✗ ✓	452 ✗ ✓
	84 ✗ ✓	321 ✗ ✓
	214 ✗ ✓	
	280 ✗ ✓	
	309 ✗ ✓	
	194 ✗ ✓	
	215 ✗ ✓	
	208 ✗ ✓	
	348 ✗ ✓	
	349 ✗ ✓	
	← 301 ✗	
	195 ✗	
	182 ✗ ✓	
	303 ✗ ✓	
	346 ✗ ✓	
	306 ✗ ✓	
	180 ✗ ✓	

~~301 skull only~~

(Received 9/73)

Rattus hoffmanni

332 188
430 399
233 83
114 322
228 116
341 318a
402 81
82 470
142 343
405 448
W3 471
527
466
328 528

Rattus chrysocomus

9 420 144
424 374 141
393 376 112
33 391
413 375 323
423 432 454
421 425 354
110 330
455 139
433 373
353 232
434
381
183 401
314 337

Rattus mammosurus

390 359
398 35
193 36
377 234
479 364
312 19
184 187
392 4
344 2
403 145
327 186
250 140
111 34
316 159

Rattus delebensis

320
319
318b
1
251
252
489
477

Rattus exulans

422
276
235
331
336
334
333
404
135

Rattus dominator

431
450
475
451

Rattus hellwaldii

447
476
490
457
458
419
456

Rodents

Skull only:

ASE	317 ♀ (should it be 318 ♂?)		skincase in 12/73
	357 ♂	✓	✓
	378 ♀	✓	✓
	526	✓	✓
	~~528 ♀~~		
	549 ♂	✓	✓
	541	✓	✓
	519 ♀	✓	✓
	532 ♂	✓	✓
	534 ♀	✓	✓
	79 ♂	✓	✓
	~~307 ♀~~		
	~~301 ♀ (skin of 201)~~		

~~301 = exulans~~
~~201 = Rousettus~~

258 - Nyctimene

237
362 } Cynopterus

287
200 } Rousettus
439

(all sorted out by process of elimination)

Identifications as per KFK

Bats: skins + skulls

17: Thoopterus nigrescens
10: Cynopterus brachyotis brachyotis
52: Rousettus celebensis
2: Pteropus alecto alecto
4: Styloctenium wallacei
8: Dobsonia exoleta
2: Macroglossus lagochilus lagochilus
3: Nyctimene cephalotes cephalotes

4: Skulls only = identification by GGM correct

222761	237	CYNOPTERUS BRACHYOTIS BRACHYOTIS
222762	238	" " "
222763	256	" " "
222764	285	" " "
222765	362	" " "
222766	368	" " "
222767	369	" " "
222768	387	" " "
222769	417	" " "
222770	514	" " "
222771	241	THOOPTERUS NIGRESCENS
222772	253	" "
222773	254	" "
222774	255	" "
222775	284	" "
222776	385	" "
222777	386	" "
222778	414	" "
222779	435	" "
222780	442	" "
222781	462	" "
222782	480	" "
222783	481	" "
222784	501	" "
222785	505	" "
222786	515	" "
222787	516	" "
222788	52	CYNOPTERUS BRACHYOTIS BRACHYOTIS
222838	192	ROUSETTUS CELEBENSIS
222839	197	" "
222840	198	" "
222841	199	" "
222842	200	" "
222843	201	" "
222844	202	" "
222845	203	" "
222846	204	" "
222847	205	" "
222848	243	" "
222849	244	" "
222850	245	" "
222851	286	ROUSETTUS CELEBENSIS
222852	287	" "
222853	288	" "
222854	289	" "
222855	290	" "
222856	291	" "
222857	292	" "
222858	293	" "
222859	294	" "
222860	295	" "
222861	296	" "
222862	297	" "
222863	298	" "
222864	310	" "
222865	384	" "
222866	389	" "
222867	415	" "
222868	416	" "
222869	428	" "
222870	429	" "
222871	436	" "
222872	437	" "
222873	438	" "
222874	439	" "
222875	440	" "
222876	441	" "
222877	445	" "
222878	446	" "
222879	463	" "
222880	464	" "
222881	498	" "
222882	499	" "
222883	500	" "
222884	502	" "
222885	503	" "
222886	504	" "
222887	517	" "
222888	522	" "
222889	539	" "
222890	42	" "
222891	482	" "
222892	483	" "

222976	355	PTEROPUS	ALECTO	ALECTO
222977	356	"	"	"
222978	264	STYLOCTENIUM	WALLACEI	
222979	426	"	"	
222980	427	"	"	
222981	461	"	"	
222986	213	DOBSONIA	EXOLETA	
222987	214	"	"	
222988	221	"	"	
222989	222	"	"	
222990	223	"	"	
222991	224	"	"	
222992	239	"	"	
222993	283	"	"	
223000	367	MACROGLOSSUS	LAGOCHILUS	LAGOCHILUS
223001	521	MACROGLOSSUS	LAGOCHILUS	LAGOCHILUS
223004	240	NYCTIMENE	CEPHALOTES	CEPHALOTES
223005	257	"	"	"
223006	258	"	"	"
223026	1	RATTUS	CELEBENSIS	
223027	251	"	"	
223028	252	"	"	
223029	318 b	"	"	
223030	319	"	"	
223031	320	"	"	
223032	477	"	"	
223033	489	"	"	
223035	5	"	CHRYSOCOMUS	
223036	7	"	"	
223037	9	"	"	
223038	13	"	"	
223039	33	"	"	
223040	80	"	"	
223041	109	"	"	
223042	110	"	"	
223043	112	"	"	
223044	115	"	"	
223045	118	"	"	
223046	139	"	"	
223047	141	"	"	
223048	143	"	"	
223049	144	"	"	
223050	183	"	"	
223051	232	KATTUS	CHRYSOCOMU	
223052	236	"	"	
223053	275	"	"	
223054	314	"	"	
223055	323	"	"	
223056	325	"	"	
223057	329	"	"	
223058	330	"	"	
223059	337	"	"	
223060	342	"	"	
223061	353	"	"	
223062	354	"	"	
223063	361	"	"	
223064	366	"	"	
223065	373	"	"	
223066	374	"	"	
223067	375	"	"	
223068	376	"	"	
223069	381	"	"	
223070	391	"	"	
223071	393	"	"	
223072	401	"	"	
223073	413	"	"	
223074	420	"	"	
223075	421	"	"	
223076	423	"	"	
223077	424	"	"	
223078	425	"	"	
223079	432	"	"	
223080	433	"	"	
223081	434	"	"	
223082	454	"	"	
223083	455	"	"	
223095	431	"	DOMINATOR	
223096	450	"	"	
223097	451	"	"	
223098	475	"	"	

223101	84	RATTUS	EXULANS
223102	135	"	"
223103	177	"	"
223104	178	"	"
223105	180	"	"
223106	181	"	"
223107	182	"	"
223108	194	"	"
223109	195	"	"
223110	196	"	"
223111	215	"	"
223112	216	"	"
223113	235	"	"
223114	276	"	"
223115	277	"	"
223116	280	"	"
223117	281	"	"
223118	301	"	"
223119	302	"	"
223120	303	"	"
223121	304	"	"
223122	305	"	"
223123	306	"	"
223124	307	"	"
223125	308	"	"
223126	309	"	"
223127	321	"	"
223128	331	"	"
223129	333	"	"
223130	334	"	"
223131	335	"	"
223132	336	"	"
223133	345	"	"
223134	346	"	"
223135	347	"	"
223136	348	"	"
223137	349	"	"
223138	365	"	"
223139	372	"	"
223140	388	"	"
223141	394	"	"
223142	404	Rattus	exulans
223143	422	"	"
223144	452	"	"
223145	453	"	"
223146	478	"	"
223161	412	"	HELLWALDI
223162	419	"	"
223163	447	"	"
223164	456	"	"
223165	457	"	"
223166	458	"	"
223167	476	"	"
223168	490	"	"
223171	65	"	HOFFMANNI
223172	81	"	"
223173	82	"	"
223174	83	"	"
223175	113	"	"
223176	114	"	"
223177	116	"	"
223178	142	"	"
223179	188	"	"
223180	233	"	"
223181	318a	"	"
223182	322	"	"
223183	328	"	"
223184	332	"	"
223185	338	"	"
223186	341	"	"
223187	343	"	"
223188	399	"	"
223189	402	"	"
223190	405	"	"
223191	406	"	"
223192	430	"	"
223193	448	"	"
223194	470	"	"
223195	471	"	"
223196	472	"	"
223197	473	"	"
223198	527	"	"
223199	528	"	"

223207	2	Rattus	MARMOSURUS
223208	4	"	"
223209	19	"	"
223210	34	"	"
223211	35	"	"
223212	36	"	"
223213	111	"	"
223214	140	"	"
223215	145	"	"
223216	159	"	"
223217	184	"	"
223218	186	"	"
223219	187	"	"
223220	193	"	"
223221	234	"	"
223222	250	"	"
223223	312	"	"
223224	316	"	"
223225	327	"	"
223226	344	"	"
223227	359	"	"
223228	364	"	"
223229	377	"	"
223230	390	"	"
223231	392	"	"
223232	398	"	"
223233	403	"	"
223234	479	"	"
223240	315	"	MUSCHENBROEKII
223241	488	"	"

465	369	296	291	203
295	386	414	461	436
367	238	438	446	243
502	199	241	464	244
504	463	256	288	362
198	289	499	417	204
501	498	505	293	415
202	205	384	310	201
517	294	292	237	297
	[redacted]	516	298	387
		539	514	522
			521	515

puts

NH 9/11

Helmut:

All hat skulls have skins. Except for "skull only," you should be able to match up all skins with skulls.

Read this

435 ✓
253 ✓
385 ✓
437 ✓
290 ✓
245 ✓
389 ✓
439 ✓
240 ✓
428 ✓
483 (SO) ✓
416 ✓
481 ✓
442 ✓
503 ✓
287 ✓

NH
9/11

Bat
Skulls

355 ✓
356 ✓
213 ✓
224 ✓
283 ✓
222 ✓
214 ✓
221 ✓
239 ✓
223 ✓
264 ✓
427 ✓
426 ✓

254 ✓
445 ✓
286 ✓
42 (SO) ✓
440 ✓
284 ✓
500 ✓
429 ✓
258 ✓
480 ✓
192 ✓
368 ✓
482 (SO) ✓
197 ✓
52 ✓ (SO)
200 ✓
255 ✓
441 ✓
285 ✓
257 ✓

3.3) 3760.06 = 1139.4

33
46
33
130
99
310
297
130

1140 m

Helmut

These skulls
are in this can.

318, 83, 322, 140, 233, 405, 328, 342, 252, 65, 343,
398, 144, 112, 354, 141, 143, 215, 338,

NH
9/14

424	236	307	333	234
84	7	473	135	13
348	327	393	321	381
347	364	281	365	178
33	433	423	142	109
401	421	375	323	373
277	422	34	457	183
302	404	194	81	309
346	453	316	391	488
413	345	336	374	180
349	195	331	118	9
314	478	447	181	334
196	366	182	159	
479	394	332	4	

Rodent
skulls

JAH
9/14

378	472	312	36
430	402	19	111
475	399	357	403
489	470	82	392
477	250	431	188
450	114	184	390
377	113	359	471
1	341	317	319
448	35	186	
251	344	145	
193	320	187	

Rodent skulls

2 ✓	5 ✓
116 ✓	304 ✓
372 ✓	376 ✓
425 ✓	303 ✓
434 ✓	115 ✓
452 ✓	232 ✓
432 ✓	306 ✓
308 ✓	139 ✓
235 ✓	412 ✓
276 ✓	216 ✓
420 ✓	337 ✓
419 ✓	315 ✓
301 ✓	456 ✓
305 ✓	451 ✓
280 ✓	490 ✓
177 ✓	476 ✓
458 ✓	528 ✓
353 ✓	406 ✓
80 ✓	527 ✓
325 ✓	524 ✓
329 ✓	541 ✓
454 ✓	534 ✓
361 ✓	549 ✓
275 ✓	519 ✓
330 ✓	532 ✓
335 ✓	
455 ✓	
79 ✓	
110 ✓	

Helmut:

You will not be able to match some of these skulls with skins because the skins didn't dry in time to send. Just hold the unmatched skulls until the next shipment arrives — sometime in November or early December.

Guy

MH 9/14

Helmut

skulls

Rubrisciurus

1336

Rattus hoffmanni

1393 1330
1383 1342
1329 1310
1340 1404

Rattus celebensis

1365

Rattus marmosurus

1362 1366 1368
1353 1335 1370
1357 1346 1317
1374 1300 1327
1399 1361 1375
1405

unknown skin

Rattus exulans

1354

Rattus hellwaldii

1388 1369
1391

Rattus beccarii

1407

MONP

skulls in this can

Rattus chrysocomus (skulls)

1307	1309	1365
	1308	1320
1326	1331	1347
1306	1321	[redacted]
1304	1338	1345
1324	1351	1341
1313	1355	1319
1343	1322	1337
1325	1315	1323
1301	1312	1311
1314	1333	1344
1316	1332	1348
1364	1299	1303
1380	1363	1356
1360	1381	1352
1394	1378	1384
1395	1376	1398
1382	1377	1379
	1385	1400
		1401

unknown skin (Dent. as Hoffmann)

Skulls in this can

Rubrisciurus skulls

1608

Rattus hellwaldii

1602 1609 1611

1610

Rattus marmosurus

1625 1615 1627 1645

1633 1620 1628 1642

1619 1631 1641

Prosciurillus murinus

1622 1621

Rattus muschenbroekii

1616 1603 1614

Rattus hoffmanni

1618 1607 1630 1637

1648 1604 1632 1617 1605

Rattus chrysocomus

1606 1629 1634 *1613

1639

Crunomys sp.

1626

Rattus celebensis

1643

1636

Lenomys

1612

*skin identified as R. muschenbr.

Skulls in this
cave

skull only

Central Sulawesi,
Winatoe, 2500 ft.

✓1644 - Rattus hellwaldii
✓1647 - " muschenbroekii

skulls

Rubrisciurus rubriventer

1459

Rattus dominator

1470 1464
1463

Rattus marmosurus

1448 1473 1474
1456 1397 1475
1472 359

Rattus hellwaldii

1461 1460
1462 1466

Rattus hoffmanni

1389
1465

Rattus beccarii

1471
1467

Rattus chrysocomus

1458

Immature-clean carefully.

skulls in
this can

Rattus marmosurus

✓ 1588 224292

Rattus hellwaldii

✓ 1583 224219

Rattus chrysocomus

✓ 224151 1589

✓ 224150 1585

✓ 224152 1590

✓ 224147 1579

✓ 224149 1584

✓ 224146 1578

✓ 224148 1580

Rec'd 6/74

Also 3 other skins:

2 from Java ✓

1 " Thailand

to be put aside, in Guy's room as per GBM 1/23

specimens inside
this box

Rattus hellwaldii

1481
1488
1491
1496
1495
1497
1487
1522
1480
1502
1532
1476
1503

Rattus muschenbroekii

1485
1477

Rattus hoffmanni

1504
1492
1486

Rattus chrysocomus

1541

Rattus celebensis

1493
1499
1514
1513

Rattus marmosurus

1482
1498

Rattus dominator

1507

Prosciurillus murinus

1483
1511
1536
1484

Prosciurillus leucomus

1510

Spells

SOUTH EAST ASIA TREATY ORGANIZATION

UNITED STATES ARMY MEDICAL SERVICE

UNITED STATES ARMY MEDICAL COMPONENT
SOUTH EAST ASIA TREATY ORGANIZATION
APO SAN FRANCISCO 96346

IN REPLY REFER TO:

February 25, 1974

Dr. Guy Musser
Div. of Mammals
American Museum of Natural History
Central Park West at 79th Street
New York, N.Y. 10024

Skulls in this can

Dear Dr. Musser:

I have the sad duty to inform you that Mr. Kitti Thonglongya passed away of a heart attack on Feb. 12. I have been asked to review his professional correspondence and to notify people he was in contact with.

Rattus dominator

1533 1509
1529 1523
1538 1549
1547

Rubrisciurus rubriventer

1534
1531

Rattus celebensis

1568

Rattus hellwaldii

1542
1494
1566
1574

Rattus hoffmanni

1573

cti was in correspondence with you in
tudies. He had a fascinating new bat
pecies which he had found frequenting
en working with Dr. Hill concerning
ill complete the paper that they
stions concerning specimens or the
e direct them to Dr. Prasert

ing you this news.

Sincerely yours

H. Elliott McClure

H. ELLIOTT McCLURE
Ornithologist

Shows in this case

U. S. ARMY COMPONENT IS A SPECIAL ACTIVITY OF
WALTER REED ARMY INSTITUTE OF RESEARCH
WALTER REED ARMY MEDICAL CENTER
WASHINGTON, D. C. 20012

plus extra skulls:

~~1588~~ ♀
~~1587~~ ♀
~~1590~~ ♂
~~1585~~ ♀
~~1584~~ ♂
~~1579~~ ♀
~~1580~~ ♀

~~1578~~ ♀
~~1583~~ ♀

RWT ♀ 3895 Ps 6577
RWT ♂ 3894 J. 5494
+ 822
already cleaned

Central Sulawesi, Sadaunta, 600 m

Sent July 28, 1974

3

224318	1339	♀	Rattus	beccarii	[240]-[128]-27-x:[55g.]	10 Feb. 1974
224319	1372	♂	"	exulans	271-140-27-17:43g	13 " "
224320	1373	♀	"	"	257-126-26-17:40g	" " "
224321	1387	♂	"	"	276-143-27-18:50g	16 " "
224322	1440	♂	"	"	267-136-27-18:45g	26 " "
224323	1451	♂	"	"	278-136-27-18:48g	2 March "

1470 - should be carcass

1522
1523
1529
1531
} skin, skull, reproductive tract in fluid

1608 - Skin and skull only

Received June/74

✓ = carcass
✓ = SKIN
✓ = SKULL

Rattus celebensis

224070 ✓✗ 1433
224069 ✓✗ 1365

Rattus chrysocomus

✓✗ 224112 1352
✓✗ 224142 1453
✓✗ 224115 1360
✓✗ 224114 1356
✓✗ 224107 1344
✓✗ 224104 1337
✓✗ 224106 1343
✓✗ 224101 1331
✓✗ 224098 1324
✓✗ 224096 1322
✓✗ 224091 1315
✓✗ 224088 1312
✓✗ 224079 1301
✓✗ 224085 1308
✓✗ 224133 1416
✓✗ 224132 1415
✓✗ 224131 1401
✓✗ 224113 1355
✓✗ 224110 1348
✓✗ 224099 1325

✓✗ 224141 1449
✓✗ 224117 1364
✓✗ 224153 1454
✓✗ 224108 1345
✓✗ 224093 1319
✓✗ 224128 1395
✓✗ 224092 1316
✓✗ 224080 1303
✓✗ 224105 1338
✓✗ 224138 1428
✓✗ 224095 1321
✓✗ 224097 1323
✓✗ 224087 1311
✓✗ 224081 1304
✓✗ 224078 1299
✓✗ 224084 1307
✓✗ 224129 1398
✓✗ 224124 1382
✓✗ 224125 1384
✓✗ 224120 1378
✓✗ 224119 1377
✓✗ 224122 1380
✓✗ 224136 1419
✓✗ 224144 1458

✓✗ 224137 1427
✓✗ 224140 1436
✓✗ 224111 1351
✓✗ 224109 1347
✓✗ 224103 1333
✓✗ 224130 1400
✓✗ 224083 1306
✓✗ 224087 1305
✓✗ 224102 1332
✓✗ 224100 1326
✓✗ 224139 1430
✓✗ 224094 1320
✓✗ 224086 1309
✓✗ 224089 1313
✓✗ 224090 1314
✓✗ 224134 1417
✓✗ 224127 1394
✓✗ 224126 1385
✓✗ 224135 1418
✓✗ 224121 1379
✓✗ 224116 1363
✓✗ 224118 1376
✓✗ 224123 1381

+1341 skull
Ident. as Chrysocrane

Rattus marmosurus

✓✗ 224283 1431
✓✗ 224271 1362
✓✗ 224270 1361
✓✗ 224275 1375
✓✗ 224272 1366
✓✗ 224268 1357
✓✗ 224273 1368
✓✗ 224266 1346
✓✗ 224265 1335
✓✗ 224267 1353
✓✗ 224280 1411
✓✗ 224282 1421
✓✗ 224279 1410
✓✗ 224277 1399
✓✗ 224278 1405
✓✗ 224274 1374
✓✗ 224263 1317
✓✗ 224264 1327
✓✗ 224281 1412
✓✗ 224262 1300
✓✗ 224285 1456
✓✗ 224276 1397
✓✗ 224269 1359
✓✗ 224286 1472
✓✗ 224287 1473
✓✗ 224284 1448
✓✗ 224288 1474
✓✗ 224289 1475

+1370 skull
Ident. as B. marmosurus
Carleton

Rattus hoffmanni

224240 ✓✗ 1390
✓✗ 224237 1370
✓✗ 224233 1340
✓✗ 224246 1465
224231 ✓✗ 1329
✓✗ 224243 1408
✓✗ 224234 1341
✓✗ 224239 1389
224244 ✓✗ 1409
✓✗ 224235 1342
✓✗ 224242 1404
224232 ✓✗ 1330
✓✗ 224245 1426
✓✗ 224236 1350
224241 ✓✗ 1393
✓✗ 224238 1383
✓✗ 224230 1310

Rattus exulans

✓✗ 1354 224182

Rattus rattus

✓✗ 1429 224315

Rattus musschenbroekii

✓✗ 1424 224306

Rattus hellwaldii

224193	1391	1388	224192
224196	1447	1403	224195
224197	1455	1396	224194
	1369 224191	1462	224200
224201	1466	1461	224199
224198	1460		

Prosciurillus leucomus

224041 1413

Prosciurillus murinus

1439 224045
1435 224044
1434 224043

Rubrisciurus rubriventer

1414 224053
1336 224052
1459 224054

Rattus dominator

1463 224171
1464 224172
1470 224173

Rattus beccarii

224061	1425	1471	224067
224066	1467	1407	224058
224059	1422	1432	224062
224060	1423	1438	224063
224064	1443	1445	224065

Rattus marmosurus

224299 1631
224296 1625
224307 1642
224303 1645
224297 1627
224301 1641
224298 1628
224300 1633
224293 1615
224295 1620
224294 1619

Rattus celebensis

1636 224076
1643 224077

Rattus muschenbroekii

1616 224312
1603 224309
1613 224313 *
1614 224311

* skull #1613 identified as R. chrysocomus

Rattus hoffmanni

224258 1637
224251 1604
224257 1632
224254 1617
224255 1618
224252 1605
224253 1607
224256 1630
224259 1648

Rattus chrysocomus

1639 224156
1634 224155
1629 224154
1606 224153

Rubrisciurus rubriventer

1608 224057

Prosciurillus murinus

1621 224050
1622 224051

Rattus hellwaldii

1610 224222
1611 224223
1609 224221
1602 224220

Lenomys meyeri

1612 224317

Crunomys sp.

1626 224316

skull only { plus: from Central Sulawesi; Winatoe, 2500'
1646 - R. hellwaldii 224224
1647 - R. muschenbroekii 224313

PATIENT SHEETS

NAME:

AGE: PATIENT #:

SEX:

DURATION OF DIARRHEA:

AMOUNT OF DIARRHEA:

VOMITING:

BP:

P:

DEHYDRATION:

Rubrisciurus rubriventer

✓✗1534 224056
✗1531 + internal parts 224055

Rattus dominator

224178 ✓✗1533 1538✗✓224179
224180 ✓✗1549 1523✗ + internal parts 224176
224177 internal parts + ✗1529 1507✗✓224174
224181 ✓✗1567 1509✗✓224175

Rattus chrysocomus

224145 1541 ✗✓

Rattus muschenbroekii

224308 1485 ✗✓
224307 1477 ✗✓ + "skull only"

Prosciurillus leucomus

224042 1510 ✗✓

Prosciurillus murinus

224047 1484 ✗✓
224046 1483 ✗✓
224048 1511 ✗✓
224049 1536 ✗✓

Rattus hoffmanni

✓✗224247 1486
✓✗1504 224249
1492 ✗✓224248
1573 ✗✓224250

Rattus celebensis

✓✗224074 1514
✓✗224072 1499
✓✗224073 1513
✓✗1493 224071
✓✗224075 1568 (glue left ear)

Rattus marmosurus

✓✗1498 224291
✓✗1482 224290

Rattus hellwaldii

✓✗224218 1574
✓✗224213 1503
✓✗224208 1494
✓✗224215 1532
✓✗224204 1481
✓✗224205 1487
✓✗224203 1480
✓✗224209 1495
1491 ✗✓224207
1502 ✗✓224212
1542 ✗✓224216 + "skull only"
1496 ✗✓224210
1476 ✗✓224202
1522 ✗224214 + internal parts
1488 ✗✓224206
1566 ✗✓224217
1497 ✗✓224211

Helmut

no bugs
no need for extra program

Skulls

Rattus marmosurus
1431 1410 1411
1421 1412

Rubrisciurus rubriventer
1414

Prosciurillus leucomus
1413

Prosciurillus murinus
1434 1435 1439

Rattus muschenbroekii
1424

Rattus celebensis
1433

Rattus hellwaldii
1396 1403
1447 1455

Rattus chrysocomus
1417 1419 1449
1418 1427 1436
1415 1428 1454
1430 1416 1453

Rattus hoffmanni
1426 1409
1408 1350
1390

Rattus beccarii
1423 1432
1422 1438
1445 1443
1425

Rattus rattus
1429

Loesser
37 West 72
New York, N.Y.
USA 10023

AIR MAIL AIR MAIL

skulls in this can

Dr. Guy Musser
Schistosomiasis Project
c/o Bala Keselamatan
Kulawi, Palu
Sulawesi Tengah
INDONESIA

223468 79: Rattus chrysocomus — SK+SK+carcass

223466 357: Rubrisciurus rubriventer — " " "

223467 378: " " — " " "

223472 519: Rattus hellwaldii — " " "

223470 526: " dominator — " " "

223473 532: " hellwaldii — " " "

223474 534: " " — " " "

223469 541: " chrysocomus — " " "

223471 549: " exulans — " " "

With letter of 1/14/74
Not in file -

Here is data for the following alcoholics:

~~518~~:

Central Sulawesi, Lake Lindu, Tomado, 1000 m

223487 518: Rattus hellwaldii, male, 18 August, 1973; [228]-[55]-44-28:140 g.

223479 542: " exulans male 21 " " ; 236-123-27-17:39g.

223480 543: " " female, 21 " " ; 236-123-26-17:36 g.

Central Sulawesi, Lake Lindu, Lembo, 1000 meters

223493 550: Rattus marmosurus, female; 21 August, 1973; 450-248-44-25:165g

223486 551: " exulans male: 22 " " ; 258-139-28-17:41g.

Tomado, 1000 m

223475 552: Prosciurillus murinus, male; 22 Aug., 1973; 240-110-35-10:80g

223476 553: Rattus chrysocomus, female: " " " ; 245-112-33-22:53g

223477 554: " " " " " " 286-130-35-27:78g

223481 555: " exulans " " " " ; 240-132-26-17;36g

223482 558: " " , male 24 " " ; 256-132-27-17:52g

223483 559: " " " " " " ; 250-138-26-17:33g

223488 560: " hoffmanni, male " " " ; 315-150-39-23:105g

223489 563: " " , female 25 " " ; 282-138-37-22

223490 564: " " " " " " ; 310-158-39-22

223484 567: " exulans, female 26 " " ; 250-125-28-18:40g

223485 568: " " , male " " " ; 265-130-28-18:43g

Central Sulawesi, Sungei Tokararu (elevation follows each number)

223491 755 (3900 ft): Rattus hoffmanni, female, 10 Oct; 275-128-36-22:90g

223478 757 (4260 ft): " dominator, male " " ; 380-206-50-27:120g

223465 759 (3800 ft): Crocidura elongata, male, " " ; 207-112-21-12:12g

223492 778 (4200 ft): Rattus hoffmanni, female 13 " ; 360-177-39-23:130g

Sent in letter of
Jan. 14, 1974

Central Sulawesi

Gunung Kanino ~~4800 ft.~~

8 November 1973
4800 ft. ASE 847 ♂ 223976 Rattus penitus 370-193-43-26: 125g

13 November 1973
5100 ft. ASE 886 ♂ 223974 Rattus muschenbroekii 260-125-34-20: 70g

Gunung Nokilalaki

9 December 1973
5700 ft. ASE 998 ♀ 223977 Rattus penitus 340-160-41-26: 120g

16 December 1973
7200 ft. ASE 1088 ♀ 223969 Rattus dominator 500-265-55-28: 230g
(Have this specimen down as skin and skull and body in formalin)
7500 ft. ASE 1089 ♀ 223970 R. dominator 490-265-55-29: 250g
(Also S+S+B in F)

Tomado 1000m

17 January 1974
ASE 1291 ♀ 223971 Rattus hoffmanni 335-163-42-22: 130g
ASE 1292 ♂ 223975 " musschenbroekii 310-155-37-21: 95g

18 January 1974
ASE 1294 ♀ 223972 " hoffmanni 340-172-40-23: 140g
ASE 1295 ♀ 223973 " " 332-168-39-22: 70g

19 May 1974
223984 ✓ ASE 1623 ♂ Crocidura elongata 201-107-21-12: 13g.
224261 ✓ ASE 1624 ♂ Rattus hoffmanni 260-125-35-21: 65g

23 May 1974
224314 ✓ ASE 1635 " musschenbroekii 287-136-33-21: 90g

24 May 1974
224170 ✓ ASE 1638 " chrysocomus 272-125-32-24: 75g

25 May 1974
223991 ✓ ASE 1640 ♂ Crocidura sp. 162-85-16-10: 5g

26 May 1974
223985 ✓ ASE 1644 ♂ Crocidura elongata 205-115-21-12: 11g

27 May 1974
✓ No number — One large earthworm

Formalin Specimens

Central Sulawesi, Sadaunta, 675m.

6 February 1974 –				
224157	✓1302	♀	Rattus chrysocomus	280-135-36-23: 80g
8 Feb.				
224158	✓1318	♂	" "	304-134-37-24: 108g
9 Feb.				
224159	✓1334	♂	" "	306-145-37-24: 95g
12 Feb.				
224304	✓1367	♂	Rattus marmosurus	495-280-45-24: 210g
13 Feb.				
224183	✓1371	♂	" exulans	283-142-28-18: 50g
16 Feb.				
224184	✓1386	♀	" "	252-120-26-17: 43g
17 Feb.				
224185	✓1392	♀	" "	282-142-36-23: 75g
18 Feb.				
224225	✓1402	♀	" hellwaldii	340-155-44-26: 155g
19 Feb				
224226	✓1406	♂	" "	351-167-46-26: 150g
21 Feb.				
224160	✓1420	♀	" chrysocomus	288-142-36-22: 65g
25 Feb.				
224161	✓1437	♂	" "	[270]-[120]-36-23: 83g
26 Feb				
224162	✓1441	♀	" "	285-134-36-22: 80g
224163	✓1442	♂	" "	274-124-35-24: 70g
27 Feb.				
224068	✓1444	♂	" beccarii	310-175-28-20: 68g
224186	✓1446	♂	" exulans	278-141-27-17: 50g
2 March				
224164	✓1452	♀	" chrysocomus	287-128-35-24: 82g
3 March				
224165	✓1457	♂	" "	175-84-27-18: 15g
5 March				
224166	✓1468	♂	" "	[250]-[93]-35-23: 115g
224187	✓1469	♂	" exulans	248-128-26-17: 35g

224323 1451 - R. exulans unknown date

224322 1440 - R. exulans " " "

224318 1339 - R. beccarii " " "

224319 1372 - R. exulans " " "

224320 1373 - unknown date R. exulans

224321 1387 - " " R. exulans

Formalin Specimens

Central Sulawesi, Sadaunta, 675 m.

9 February 1974

223978 ✓1328 ♂ Crocidura elongata 215-123-21-11:10g

2 March

223986 ✓1450 ♀ " nigripes 143-55-15-9:9g

Rec'd 6/74

Formalin Specimens (Misc.)
Sungai Miu, 350 meters, Central Sulawesi

23 March 1974				
224001	ASE 1478	♂	Cynopterus	108-6-16-17 : 36g
223988	ASE 1479	♂	Crocidura nigripes	155-69-17-10 : 5g
25 March 1974				
223992	ASE 1489	♀	Cynopterus brachyotis	80-6-15-14 : 18g
26 March 1974				
224003	ASE 1490	♀	Rousettus celebensis	125-26-23-19 : 35g
27 March 1974				
223993	ASE 1500	♂	Cynopterus brachyotis	101-7-17-17 : 28g
223994	ASE 1501	♂	" "	103-7-17-18 : 35g
28 March 1974				
223995	ASE 1505	♂	Cynopterus brachyotis	99-8-17-16 : 30g
29 March 1974				
223996	ASE 1512	♂	Cynopterus brachyotis	100-6-15-16 : 25g
30 March 1974				
	ASE 1515		Bird	
224004	ASE 1516	♀	Rousettus celebensis	145-24-23-16 : 60g
223997	ASE 1517	♀	Cynopterus brachyotis	84-5-16-16 : 15g
223998	ASE 1518	♂	" "	85-7-16-15 : 13g
223999	ASE 1519	♀	" "	105-9-15-18 : 30g
31 March 1974				
223989	ASE 1521	♀	Crocidura nigrepes	149-57-15-10 : 5g
224000	ASE 1524	♀	Cynopterus brachyotis	92-8-16-16 : 15g
1 April 1974				
224005	ASE 1527	♀	Rousettus celebensis	140-23-24-19 : 60g
224006	ASE 1528	♀	" "	145-21-24-18 : 65g
223979	ASE 1530	♀	Crocidura elongata	217-120-21-12 : 10g
2 April 1974				
224007	ASE 1535	♀	Rousettus celebensis	120-21-23-18 : 35g
223980	ASE 1537	♀	Crocidura elongata	215-120-22-11 : 10g
3 April 1974				
223981	ASE 1539	♂	Crocidura elongata	211-120-22-11 : 13g
224008	ASE 1543	♀	Rousettus celebensis	146-26-24-18 : 65g
224009	ASE 1544	♂	" "	125-25-23-18 : 45g
224010	ASE 1545	♀	" "	155-28-25-17 : 65g
224011	ASE 1546	♀	" "	118-23-22-17 : 30g
224012	ASE 1547	♂	" "	127-23-23-18 : 40g
224013	ASE 1548	♀	" "	124-23-23-17 : 30g
4 April 1974				
223982	ASE 1550	♀	Crocidura elongata	215-115-20-12 : 9g
224014	ASE 1551	♀	Rousettus celebensis	143-25-23-19 : 70g
224015	ASE 1552	♀	" "	130-26-25-18 : 40g
224016	ASE 1553	♀	" "	145-25-22-18 : 65g
224017	ASE 1554	♂	" "	155-26-24-18 : 70g
5 April 1974				
224018	ASE 1556	♀	Rousettus celebensis	142-22-23-18 : 65g
224019	ASE 1557	♀	" "	143-25-22-18 : 60g
6 April 1974				
224020	ASE 1558	♀	" "	145-26-23-18 : 65g
7 April 1974				
224021	ASE 1559	♀	" "	130-26-24-18 : 45g
224022	ASE 1560	♂	" "	120-21-23-16 : 37g
224039	ASE 1561	♂	Nyctimene cephalotes	130-23-17-16 : 50g

Formalin Specimens (Rats)
Sungai Miu, 350 meters, Central Sulawesi

29 March 1974
224260 ✓ASE 1508 ♀ Rattus hoffmanni 355-168-40-X: —

30 March 1974
224227 ✓ASE 1520 ♀ Rattus hellwaldii 368-165-46-27: 200g

31 March 1974
224188 ~~ASE 1521 ♀ Crocidura nigrepes~~ "
✓ASE 1525 ♂ Rattus exulans 253-116-27-17: 43g

1 April 1974
224228 ✓ASE 1526 ♂ Rattus hellwaldii 375-175-47-28: 190g

3 April 1974
224189 ✓ASE 1540 ♂ Rattus exulans 222-113-26-17: 25g

5 April 1974
224190 ✓ASE 1555 ♂ " " 257-135-27-17: 55g

Formalin Specimens (Misc.)
Sungai Miu, 350 meters, Central Sulawesi

8 April 1974

224023	ASE 1562	♀	Rousettus celebensis		155-30-24-18 : 65g
224024	ASE 1563	♀	"	"	125-24-23-18 : 40g
224025	ASE 1564	♀	"	"	150-26-23-18 : 72g
224026	ASE 1565	♀	"	"	150-25-23-18 : 65g

10 April 1974

224027	ASE 1569	♀	"	"	132-25-23-18 : 45g
224028	ASE 1570	♀	"	"	111-22-23-18 : 30g
224040	ASE 1571	♂	Nyctimene cephalotes		130-26-18-16 : 45g
224002	ASE 1572	♀	Cynopterus		93-X-15-17 : 30g

11 April 1974

224029	ASE 1575	♀	Rousettus	celebensis	133-22-23-18 : 55g
224030	ASE 1576	♀	"	"	140-27-23-19 : 55g
224031	ASE 1577	♀	"	"	152-28-23-18 : 65g

Formalin Specimens (Rodents)

Central Sulawesi, Sungai Pormina, 700 meters

23 April 1974

224167 ✓ ASE 1581 ♂ Rattus chrysocomus 277-124-36-24: 95g

25 April 1974

224229 ✓ ASE 1586 ♂ Rattus hellwaldii 395-187-46-27: 220g

28 April 1974

224168 ✓ ASE 1592 ♂ " chrysocomus 287-140-34-22: 80g

224169 ✓ ASE 1593 ♂ " " 300-140-37-24: 97g

29 April 1974

224305 ✓ ASE 1601 ♀ Rattus marmosurus [335]-[115]-43-24: 230g

Formalin Specimens (Misc.)

Central Sulawesi, Sungai Pormina, 700 meters

24 April 1974

223983 ✓ ASE 1582 ♂ Crocidura elongata 210-120-21-12: 13g.

27 April 1974

223990 ✓ ASE 1591 ♀ " nigripes 152-67-17-8: 9g

Central Sulawesi, ~~Sungai Pormina~~ Sadaunta, 600 meters

26 April 1974

223987 ✓ ASE 1589 ♂ Crocidura nigripes 134-61-16-8: 5g

29 April 1974

224032 ✓ ASE 1594 ♀ Dobsonia 212-24-37-27: ~~5~~250g

224033 ✓ ASE 1595 ♀ " 220-29-37-28: 265g

224034 ✓ ASE 1596 ♀ " 210-25-37-28: 258g

224035 ✓ ASE 1597 ♀ " 225-25-37-27: 280g

224036 ✓ ASE 1598 ♂ " 220-24-39-27: 275g

224037 ✓ ASE 1599 ♀ " 215-22-37-26: 285g

224038 ✓ ASE 1600 ♀ " 205-26-36-28: 203g

Norma

Skulls

Rattus	penitus	
929	964	797
967	954	789
939	928	882
918	955	920
956	816	893
942	798	947
860	843	940
836	919	830
796	870	837
815	846	879
881	868	884
878	871	804
899	895	856
863	897	901
832	851	852

Skulls

Rattus	penitus
1033	977
1008	1154
1046	1019
1135	1035
1082	1081
1191	1151
993	1134
1109	1130
994	1137
1108	1024
1009	1190
1153	1101
1107	1103
1102	1084

List of skulls
in this can

Skulls

Rattus	penitus
1192	1164
1007	1006
1085	1165
1136	1034
1083	1047
1048	1025
1020	976
1036	995
1045	1080
1236	~~1156~~
1216	1217

Rattus	hamatus
1212	
1213	

Rattus	facetus
1234	1260
1202	1260
1198	1141
1201	

Rattus	musschenbroekii
1221	

Rattus	hoffmanni
1225	1224
1226	1223
1222	1259
1235	

List of skulls
in this can

Rattus dominator

Skulls

912	806
872	812
909	840
850	819
911	842
910	790
987	834
907	822
791	968
964	949
932	965

Rattus dominator

1185	1042	1183
1193	1195	1194
1172	1168	1184
1170	1021	1171
979	1059	1127
1031	1011	1041
997	1028	1026
988	1199	1280

skulls

Skulls in
this can

Skulls

Rubrisciurus rubriventer

814

Rattus dominator

943 813 921
922 959
931 971

Rattus arcuatus

915 934 914
969

Rattus hamatus

808 821

Rattus penitus

866 892 891
865 890 864
900 867 859

Skulls

Rattus dominator

1272
1273
1279

Rattus

1269

Eropeplus canus

1266
1177
1187
1188

Rattus hamatus

1072
1139

Rattus hoffmanni

991
1281
1076
1005
1182
1181
1129
1150
990
992
1166
1270
1149
1189
1078
1030
1180
1077
1167
1079

skulls in
this can

skulls

Rattus dominator

1205	1242	1060
1206	1219	1040
1105	1241	1099
1159	1196	
1207	1239	
1218	1240	
1237	1238	
1087	1039	
1126	1116	
1086	996	

List of skulls
in this can

Skulls

Rattus hoffmanni

848
905
828
835
810
833
906
838
907

952
953
925
827
927
818
936
862
839

963
917
885
888
908
889
926
~~818~~
855
811

Rattus musdhenbroekii

795
962

Rattus chrysocomus

968
799
820

Rattus marmosurus

817

811 ✓

Skulls

Rattus muschenbroekii

X1074	X975	X1112
X1075	X989	X1276
X987	X1037	X1018
X1058	X1038	X1148
X1147	X1111	

Rattus facetus

X1174	X1073
X1140	X1209
X1278	X1204
X1106	X1017
X1263	X1158
X1277	X1208
X1197	X1271

Rattus marmosurus

X1124

Skulls in
this can

skulls

Tateomys	Haeromys	
X 1176	X 1227	X 1256
	X 1264	X 1344
	X 1243	
	X 1265	

6 skulls

✓1287 – skull & carcass only } Rattus hoffmanni
✗1284

✗1286 – Rattus hellwaldii
✗1283 – " chrysocomus
✗1285 – " muschenbroekii
✗1282 – " celebensis

Data for 1287: 223764

Tomado, 1000 m, ♀ 363-175-40-21: 125g
14 Jan. 1974 (Bird stole drying skins)

6 Skulls

Formalin Specimens

Central Sulawesi, Gunung Kanino

27 October 1973

4750 ft.	ASE 793	✓ ♀	223765	Rattus	hoffmanni	325-154-39-23: 120g

30 October 1973

4800 ft.	ASE 794	✓ ♀	223796	Rattus	musschenbroekii	285-132-35-21: 91g

3 November 1973

4800 ft.	ASE 824	✓ ♂	223766	"	hoffmanni	315-155-38-22: 95g

4 November 1973

4800 ft.	ASE 826	✓ ♀	223910	"	penitus	350-165-42-28: 137g

6 November 1973

4800 ft.	ASE 841	♀ ✓	223652	"	dominator	416-226-49-27: 158g

7 November 1973

4800 ft.	ASE 844	♀ ✓	223653	"	"	522-280-56-30: 337g

9 November 1973

4800 ft.	ASE 853	♂ ✓	223572	"	dolmanni	351-193-44-24: X

10 November 1973

4800 ft.	ASE 857	♂ ✓	223911	"	penitus	290-140-41-24: 80g
5000 ft.	ASE 858	♀ ✓	223914	"	"	328-150-40-X: 115g
5000 ft.	ASE 861	♀ ✓	223657	"	dominator	565-300-58-30: 300g

12 November 1973

4800 ft.	ASE 873	♀ ✓	223654	"	"	495-270-52-28: 220g
5200 ft.	ASE 874	♂ ✓	223661	"	"	471-253-54-30: 230g
5100 ft.	ASE 876	♀ ✓	223919	"	penitus	[337]-[151]-39-26: X
5200 ft.	ASE 877	♂ ✓	223925	"	"	233-111-36-22: 42g
5000 ft.	ASE 883	♀ ✓	223915	"	"	340-172-42-26: 115g

14 November 1973

4800 ft.	ASE 894	♂ ✓	223912	"	"	370-185-43-27: 135g
4800 ft.	ASE 896	♂ ✓	223913	"	"	350-160-43-27: 160g
5100 ft.	ASE 898	♀ ✓	223920	"	"	360-177-44-26: 140g
5200 ft.	ASE 902	♀ ✓	223926	"	"	[250]-[64]-42-27: 130g
5200 ft.	ASE 903	♀ ✓	223927	"	"	320-152-40-25: 95g
5100 ft.	ASE 904	♂ ✓	223921	"	"	315-162-40-23: 85g
5000 ft.	ASE 913	♂ ✓	223562	"	arcuatus?	450-210-50-36: 225g

15 November 1973

4800 ft.	ASE 916	♀ ✓	223797	"	muschenbroekii	260-116-34-21: 80g

26. Dimana kita dapat membelok?

27. Tetapi agak mendung pada waktu sore.

28. Tetapi agak mendung pada waktu siang.

29. Hudjan sudah turun.

30. Pesawat terbang sudah turun.

31. Hudjan turun hampir tiap hari.

32. Matahari bersinar hampir tiap hari.

33. Saja tiba di Indonesia pada musim kemarau.

34. Saja sampai di Indonesia pada musim penghudjan.

35. Dia bekerdja dari djam sebelas sampai djam enam.

36. Pada musim panas jang lalu, saja bekerdja ditoko buku.

37. Pada musim panas jang lalu, saja pergi ke Djepang.

38. Pada musim gugur jang lalu saja tinggal di Perantjis.

39. Saja datang dari Amerika bulan Djanuari jang lalu.

40. Saja datang dari Amerika bulan Maret jang lalu.

41. Pada waktu itu saja belum kenal dia.

42. Pada waktu itu saja belum dapat berbitjara bahasa Indonesia.

43. Pada waktu itu saja baru akan berangkat ke Indonesia.

44. Saja mendengar bahwa dia makan dirumah makan hampir tiap hari.

45. Saja mendengar bahwa dia minum disana hampir tiap malam.

46. Saja kira, mereka baru sadja masuk.

47. Katanja, mereka baru sadja makan.

48. Tentu mereka baru sadja siap bekerdja.

49. Indah betul mobil saudara.

50. Besar betul rumah saudara.

Formalin Specimens

Central Sulawesi, Gunung Kanino

16 November 1973

5000 ft.	ASE 923	✓ ♀ 223563	Rattus arcuatus ?	447-215-51-36 : 310 g
5100 ft.	ASE 930	✓ ♀ 223922	" penitus	350-167-42-27 : 103 g
~~4800 ft.~~	~~ASE 931~~	~~♀~~	~~" dominator~~	~~470-245-53-28 : 220 g~~
~~5000 ft.~~	~~ASE 932~~	~~♀~~	~~" "~~	~~450-240-50-29 : 190 g~~
5000 ft.	ASE 933	♀ ✓ 223658	" dominator	447-244-52-28 : 155 g

17 November 1973

5100 ft.	ASE 937	♀ ✓ 223923	" penitus	282-132-41-24 : 65 g
5000 ft.	ASE 938	♂ ✓ 223916	" "	325-153-42-26 : 110 g
5200 ft.	ASE 941	♂ ✓ 223928	" "	327-160-43-25 : 125 g
4800 ft.	ASE 944	♀ ✓ 223655	" dominator	510-278-54-23 : 235 g
5000 ft.	ASE 945	♀ ✓ 223659	" "	555-297-55-27 : 315 g

18 November 1973

4800 ft.	ASE 948	♂ ✓ 223656	" "	370-193-44-26 : 115 g
4800 ft.	ASE 950	♀ ✓ 223706	" hamatus	380-196-44-25 : 146 g

19 November 1973

5000 ft.	ASE 957	♂ ✓ 223917	" penitus	[352]-[163]-45-27 : 130 g
5100 ft.	ASE 958	♂ ✓ 223924	" "	360-170-42-28 : 120 g

22 November 1973

4800 ft.	ASE 970	♀ ✓ 223767	" hoffmanni	336-175-38-23 : 118 g

23 November 1973

5000 ft.	ASE 972	♀ ✓ 223918	" penitus	341-163-41-26 : 130 g
5000 ft.	ASE 973	♂ ✓ 223660	" dominator	560-297-55-31 : 365 g
5000 ft.	ASE 974	♀ ✓ 223561	" arcuatus?	415-207-50-33 : 195 g

26. Saja harap saudara suka musim2 di Indonesia.

27. Saja harap saudara suka tjuatja ditempat ini.

28. Saja harap saudara suka udara dingin.

29. Dimana saudara bekerdja sebelum saudara bekerdja dikedutaan?

30. Dimana saudara tinggal sebelum saudara tinggal disini?

31. Apakah saudara makan pagi sebelum saudara berangkat kekantor?

32. Kepada siapa saja harus menjampaikan penerangan ini?

33. Kepada siapa saja harus menjampaikan penerangan tuan?

34. Bagaimana alamat tuan jang baru di Amerika Serikat?

35. Bagaimana alamat tuan jang sekarang di Amerika Serikat?

36. Nomor berapa kamar nona?

37. Nomor berapa kantor nona?

38. Nomor berapa kantor tuan?

39. Siapa nama anak tuan?

40. Siapa nama sekertaris tuan jang baru?

41. Apa nama kantor itu?

42. Apa nama bagian itu?

43. Kemarin malam udara sedjuk sekali, bukan?

44. Saja kira, kita dapat berbitjara sambil menunggu bis.

45. Saja kira, kita dapat makan sambil menunggu bis.

46. Saja kira, diapun mau duduk.

47. Saja kira, adik sajapun ingin pergi.

48. Saja kira, kakak sajapun ingin ikut.

49. Dimana kita dapat minum?

50. Dimana kita dapat makan?

Formalin Specimens

Central Sulawesi, Gunung Nokilalaki

10 December 1973

6400 ft.	ASE 1004	♀	223968	Rattus hoffmanni	210-100-31-18 : 40g
6000 ft.	ASE 1010	♂	223662	" dominator	[405]-[183]-55-29 : 160g

12 December 1973

6500 ft.	ASE 1027	♀	223934	" penitus	280-132-40-24 : X

14 December 1973

6000 ft.	ASE 1043	♀	223663	" dominator	500-260-55-28 : 195g
6950 ft.	ASE 1044	♀	223938	" penitus	348-170-42-26 : 120g

15 December 1973

6400 ft.	ASE 1053	♂	223930	" penitus	298-134-41-25 : 135g
7000 ft.	ASE 1054	♂	223939	" "	352-170-43-27 : 140g
7500 ft.	ASE 1055	♀	223944	" "	348-161-43-25 : 130g
"	ASE 1056	♀	223945	" "	315-145-42-27 : 95g

16 December 1973

7500 ft.	ASE 1071	♂	223965	Melasmothrix naso	216-94-29-19.5 : 50g

17 December 1973

6950 ft.	ASE 1098	♀	223671	Rattus dominator	285-148-40-22 : 50g
7500 ft.	ASE 1100	♀	223971	" hoffmanni	265-125-35-21 : 80g
7200 ft.	ASE 1104	♀	223940	" penitus	343-158-41-27 : 130g
7000 ft.	ASE 1110	♀	223798	" musschenbroekii	232-112-33-20 : 52g

18 December 1973

7500 ft.	ASE 1114	♂	223967	Tateomys rhinogradoides	323-165-39-25 : 100g
7200 ft.	ASE 1115	♀	223672	Rattus dominator	[230]-[67]-45-24 : 95g
6000 ft.	ASE 1117	♀	223664	" "	513-271-53-28 : 225g
6800 ft.	ASE 1118	♀	223667	" "	416-226-47-26 : 110g
6500 ft.	ASE 1119	♂	223935	" penitus	352-162-41-26 : 150g
7500 ft.	ASE 1120	♂	223946	" "	361-172-43-26 : 140g
7500 ft.	ASE 1121	♂	223947	" "	350-176-43-26 : 125g
"	ASE 1122	♂	223948	" "	316-128-41-25 : 145g

19 December 1973

7200 ft.	ASE 1125	♂	223673	" dominator	345-175-46-26 : 95g
6800 ft.	ASE 1128	♂	223668	" "	485-262-54-27 : 195g
6400 ft.	ASE 1131	♀	223931	" penitus	340-170-42-25 : 115g
"	ASE 1132	♂	223932	" "	315-148-41-25 : 110g
6700 ft.	ASE 1133	♀	223936	" "	347-170-42-27 : 140g
6400 ft.	ASE 1142	♂	223698	" facetus	440-250-38-23 : 95g

20 December 1973

7200 ft.	ASE 1145	♀	223557	Eropeplus canus	505-273-44-28 : 285g
7500 ft.	ASE 1146	♂	223966	Tateomys rhinogradoides	310-160-39-23 : 85g
6700 ft.	ASE 1152	♀	223937	Rattus penitus	330-160-41-26 : 110g
6800 ft.	ASE 1156	♀	223669	" dominator	385-200-47-28 : 145g
6900 ft.	ASE 1157	♀	223670	" "	520-287-55-30 : 275g
6200 ft.	ASE 1160	♀	223665	" "	470-255-52-29 : 150g

36. Mungkin hari Minggu jang akan datang saja akan pergi ke Semarang.

37. Mungkin isterinja belum datang.

38. Mungkin isterinja masih lelah.

39. Saja tidak mau jang itu. Saja mau jang lain.

40. Tentu saja akan suka negeri tuan.

41. Negeri saja Amerika.

42. Negeri saja dekat India.

43. Saja harap saja dapat datang kerumah tuan, besok.

44. Saja suka tinggal di Djakarta.

45. Saja harap saja akan suka tinggal dikota Djakarta.

46. Isteri saja barangkali tidak dapat datang kerumah saudara sore ini.

47. Barangkali dia tidak suka naik kapal terbang.

48. Saudara akan pergi ke Amerika naik apa?

49. Berapa minggu perdjalanan dari Indonesia ke Amerika dengan kapal?

50. Barangkali perdjalanan itu terlalu lama.

Formalin Specimens

Central Sulawesi, Gunung Nokilalaki

21 December 1973

6700 ft.	ASE 1161 ♀	✓ 223963	Haeromys	172-105-19-16 : 10g
7000 ft.	ASE 1162 ♀	✓ 223964	Melasmothrix naso.	195-87-29-19 : 40g
6100 ft.	ASE 1163 ♀	✓ 223929	Rattus penitus	337-152-40-24 : 115g
7400 ft.	ASE 1169 ♀	✓ 223675	" dominator	466-250-53-28 : 240g

22 December 1973

7500 ft.	ASE 1178 ♀	✓ 223801	" musschenbroekii	265-132-35-20 : 75g
"	ASE 1179 ♀	✓ 223949	" penitus	340-165-41-25 : 130g

25 December 1973

6150 ft.	ASE 1203 ♀	✓ 223699	" facetus	455-267-37-25 : 110g

27 December 1973

7200 ft.	ASE 1214 ♂	✓ 223941	" penitus	335-160-41-26 : 150g
7500 ft.	ASE 1215 ♀	✓ 223950	" "	360-170-42-25 : 145g
7500 ft.	ASE 1220 ♂	✓ 223802	" musschenbroekii	330-156-38-22 : 122g

28 December 1973

6700 ft.	ASE 1228 ♀	✓ 223769	" hoffmanni	285-143-35-20 : 65g
6800 ft.	ASE 1229 ♂	✓ 223770	" "	257-117-34-20 : 70g
7500 ft.	ASE 1230 ♀	✓ 223676	" dominator	313-155-43-24 : 85g
7200 ft.	ASE 1231 ♂	✓ 223749	" musschenbroekii	235-108-35-19 : 55g
7450 ft.	ASE 1232 ♀	✓ 223943	" penitus	313-150-40-26 : 100g
7500 ft.	ASE 1233 ♂	✓ 223951	" "	310-150-40-23 : 105g

30 December 1973

7500 ft.	ASE 1245 ♂	✓ 223803	" musschenbroekii	293-143-36-22 : 105g
"	ASE 1246 ♂?	✓ 223804	" "	251-110-34-19 : 75g
"	ASE 1247 ♂	✓ 223772	" hoffmanni	290-140-37-21 : 95g
"	ASE 1248 ♂	✓ 223773	" "	323-156-38-22 : 128g
7200 ft.	ASE 1249 ♀	✓ 223942	" penitus	360-180-42-26 : 150g
7500 ft.	ASE 1250 ♀	✓ 223952	" "	311-153-40-24 : 105g
"	ASE 1251 ♂	✓ 223953	" "	355-173-45-27 : 130g
6500 ft.	ASE 1252 ♀	✓ 223666	" dominator	575-306-56-31 : 380g
7200 ft.	ASE 1253 ♀	✓ 223674	" "	506-266-56-29 : 290g
~~7150 ft.~~	~~ASE 1254 ♂~~			

31 December 1973

6000 ft.	ASE 1258 ♀	✓ 223962	Haeromys sp.	218-140-21-18 : 12g

1 January 1974

7500 ft.	ASE 1267 ♀	✓ 223954	Rattus penitus	362-173-43-26 : 165g

2 January 1974

6400 ft.	ASE 1274 ♂	✓	" "	[220]-[50]-41-25 : 125g
7200 ft.	ASE 1275 ♂	✓ 223800	" musschenbroekii	250-122-34-20 : 60g

38. Itu makanan pramugari.

39. Itu kantor pramugari.

40. Njonja pergi kelapangan terbang naik apa?

41. Njonja pergi kekedutaan Indonesia naik apa?

42. Dia harus menelepon bagian Ekonomi.

43. Saja tidak dapat bekerdja.

44. Saja tidak suka bekerdja.

45. Siapa mau bekerdja dengan mereka?

46. Siapa mau bertanja kepada mereka?

47. Siapa mau bekerdja kepada kepala kantor?

48. Dengan siapa njonja mau berkenalan?

49. Dengan siapa njonja mau berangkat?

50. Ma'af tuan, isteri saja tidak dapat ikut.

Formalin Specimens

Central Sulawesi, Gunung Tokararu

27 October 1973

4520 ft. ASE 792 ✓ 223570 ♀ Rattus chrysocomus 315-147-38-25:105g

31 October 1973

4460 ft. ASE 800 ✓ 223571 ♀ Rattus dolmanni 470-253-48-27:255g

4500 ft. ASE 801 ✓ 223734 ♀ " hoffmanni (no measurements taken)

1 November 1973

4620 ft. ASE 802 ✓ ♂ 223707 " hamatus 350-177-46-25:148g

4300 ft. ASE 803 ✓ ♀ 223755 " penitus 358-170-41-27:115g

4180 ft. ASE 805 ✓ ♂ 223777 " marmosurus 380-207-41-22:105g

26. Kalau begitu, kamu akan bermalam disana malam Selasa.

27. Kalau begitu, kita akan bertemu disana malam Rabu.

28. Apakah ketjil rumahnja?

29. Dia tidak mau mengantarkan kita kehotel.

30. Dia tidak mau mengantarkan kita kelapangan terbang.

31. Kedutaan belum memesankan kamar untuk kita.

32. Kedutaan sudah mentjarikan rumah untuk kita.

33. Tapi saja kira kamarnja tidak terlalu terang.

34. Tapi saja kira, penerangannja tidak terlalu terang.

35. Dapatkah saja minta meritja?

36. Dapatkah saja minta ketjap?

37. Saudara2 akan minta apa?

38. Kami sudah pernah mentjari makanan Djerman.

39. Kami sudah beberapa kali mentjoba makanan Indonesia.

40. Dapatkah tuan minta untuk kami?

41. Dapatkah njonja mintakan untuk kami?

42. Keistimewaannja sate dan gado2.

43. Saja kira makanan ini tidak terlalu pedas.

44. Makanan sematjam ini tidak ada dinegeri saja.

45. Minuman sematjam ini ada banjak dinegeri saja.

46. Apakah keistimewaan negeri ini?

47. Apakah keistimewaan negeri saudara?

48. Siapa mengadjak saudara makan disini?

49. Siapa akan mengadjak kita makan ditempat sematjam ini?

50. Siapa mau mentjoba makanan sematjam ini?

Formalin Specimens (Misc.)

Central Sulawesi, Gunung Kanino

3 November 1973
4800 ft. ASE 823 ♂ 223494 Crocidura elongata 201-112-20-10: 13g.

4 November 1973
4800 ft. ASE 829 ♂ 223532 Prosciurillus leucomus 320-148-45-20: 180g

5 November 1973
4800 ft. ASE 831 ♀ 223533 " " 310-140-44-21: 155g

7 November 1973
4800 ft. ASE 845 ♂ 223534 " " 321-150-46-19: 130g

9 November 1973
4800 ft. ASE 849 ♀ 223536 " murinus 198-65-34-14: 65g

10 November 1973
4800 ft. ASE 854 ♂ 223535 " leucomus 282-113-43-20: 170g

12 November 1973
5200 ft. ASE 875 ♀ 223537 " murinus 209-80-34-14: 60g

16 November 1973
4800 ft. ASE 924 ♂ 223538 " " 200-62-34-14: 75g

17 November 1973
4800 ft. ASE 935 ♂ 223539 " " 210-80-34-13: 75g

18 November 1973
4800 ft. ASE 946 ♂ 223529 ~~Nyctimene minutus~~? ? Chrotopt 70-X-10-12: 15g

19 November 1973
4800 ft. ASE 951 Bird

20 November 1973
4800 ft. ASE 961 ♂ 223540 Hyosciurus heinreichi 360-120-59-24: 405g

26. Lift disebelah kamar tunggu, tuan.

27. Lift disebelah kantor Pengurus.

28. Apakah ada kamar kosong untuk hari Kamis jang akan datang?

29. Apakah ada kamar kosong untuk hari Sabtu jang akan datang?

30. Kalau begitu kami akan tiba disana Sabtu malam.

31. Kalau begitu kami akan berhenti disana, Sabtu malam.

32. Ada kabar buruk untukmu.

33. Kedutaan sudah mentjari pelajan untuk kita.

34. Kedutaan sudah mentjari pelajan untuk kita.

35. Kedutaan sudah mendapat pelajan untuk kita.

36. Berapa tingkat hotel itu?

37. Berapa tingkat kedutaan itu?

38. Apakah baik rumahnja?

39. Apakah ketjil kamarnja?

40. Saja mentjari rumah dengan halaman jang ketjil.

41. Saja mentjari rumah dengan kamar duduk jang bagus.

42. Dia tidak bersedia mengantarkan kita kesana.

43. Dia tidak bersedia mengantarkan kita kehotel.

44. Kedutaan sudah mendapat rumah untuk kita.

45. Kedutaan belum mendapat rumah untuk kita.

46. Tapi saja kira mobilnja tidak terlalu ketjil.

47. Tapi saja kira mobilnja tidak terlalu ketjil.

48. Dapatkah saja minta garam?

49. Dapatkah saja minta gula?

50. Saudara2 ingin minta apa?

Formalin Specimens (Misc.)

Central Sulawesi, Gunung Nokilalaki

7 December 1973						
	5700 ft.	ASE 980	♂ ✓ 223541	Hyosciurus	333-110-56-26:335g	
	5700 ft.	ASE 981	✓	Bird		
8 December 1973						
	5700 ft.	ASE 982	✓	"		18g
	"	ASE 983	✓	"		15g
	"	ASE 984	✓	"		20g
	"	ASE 985		"		10g
	"	ASE 986	✓	"		85g
9 December 1973						
	5700 ft.	ASE 999	♀ ✓ 223496	Thoopterus	118-X-20-18 : 70g	
	"	ASE 1000	♂ ✓ 223497	"	115-X-20-18:65g	
	"	ASE 1001	♂ ✓ 223498	"	115-X-19-17:65g	
	"	ASE 1002	♂ ✓ 223499	"	118-X-20-17:70g	
	"	ASE 1003	♂ ✓ 223500	"	118-X-21-19:70g	
10 December 1973						
	5700 ft.	ASE 1012	♀ ✓ 223501	"	110-X-20-17:60g	
	"	ASE 1013	♀ ✓ 223502	"	112-X-19-17:55g	
	"	ASE 1014	♀ ✓ 223503	"	110-X-19-18:55g	
	"	ASE 1015	♀ ✓ 223504	"	112-X-19-18:55g	
	"	ASE 1016	♀ ✓ 223505	"	113-X-20-18:53g	
11 December 1973						
	5700 ft.	ASE 1022	♀ ✓ 223506	"	115-X-19-17:55g	
	"	ASE 1023	♂ ✓ 223530	Rhinolophidae phus celebensis	77-30-9-21-tr.8:8g	
12 December 1973						
	5700 ft.	ASE 1029	♂ ✓ 223507	Thoopterus	115-X-19-17: X	
14 December 1973						
	7300 ft.	ASE 1049	♂ ✓ 223542	Hyosciurus heinrichi	295-80-57-24:295g	
	5700 ft.	ASE 1050	♂ ✓ 223508	Thoopterus	113-X-19-18:63g	
	"	ASE 1051	♀ ✓ 223509	"	113-X-19-17:65g	
	"	ASE 1052	♀ ✓ 223510	"	114-X-19-19:55g	
15 December 1973						
	5800 ft.	ASE 1057	♂ ✓ 223543	Hyosciurus heinrichi	310-80-58-25:370g	
	5700 ft.	ASE 1061	♀ ✓ 223511	Thoopterus	112-X-19-18:45g	
	"	ASE 1062	♂ ✓ 223512	"	115-X-19-18:60g	
	"	ASE 1063	♀ ✓ 223513	"	110-X-19-19:55g	
	"	ASE 1064	♂ ✓ 223514	"	115-X-19-16:65g	
	"	ASE 1065	♂ ✓ 223515	"	112-X-18-17:60g	
	"	ASE 1066	♀ ✓ 223516	"	106-X-19-19:50g	
	"	ASE 1067	♀ ✓ 223517	"	105-X-20-17:50g	
	"	ASE 1068	♀ ✓ 223518	"	108-X-19-17:50g	
16 December 1973						
	7300 ft.	ASE 1069	♀ ✓ 223544	Hyosciurus	325-106-56-25:290g	
	5800 ft.	ASE 1070	♂ ✓ 223545	"	331-113-60-25:345g	
	5700 ft.	ASE 1090	♀ ✓ 223519	Thoopterus	110-X-19-17:48g	
	"	ASE 1091	♀ ✓ 223520	"	108-X-18-18:47g	
	"	ASE 1092	♀ ✓ 223521	"	108-X-18-17:48g	
	"	ASE 1093	♀ ✓ 223522	"	110-X-18-16:45g	
	"	ASE 1094	♀ ✓ 223523	"	112-X-19-16:54g	
	"	ASE 1095	♀ ✓ 223524	"	112-X-19-19:56g	
	"	ASE 1096	♀ ✓ 223525	"	109-X-20-18:52g	
	"	ASE 1097	♂ ✓ 223526	"	120-X-19-18:63g	
17 December 1973						
	7500 ft.	ASE 1113	♂ ✓ 223546	Hyosciurus	333-110-61-26:370g	
18 December 1973						
	7500 ft.	ASE 1123	♂ ✓ 223547	"	277-45-57-26:350g	

31. Apakah nona suka minum teh-es?

32. Bunga merah itu ditanam oleh tukang kebun kami.

33. Bunga kuning itu ditanam oleh tukang kebun kami.

34. Tanaman2 itu ditanam oleh tukang kebun kami .

35. Berapa biasanja menggadji tukang kebun?

36. Berapa umumnja menggadji tukang kebun?

37. Dipasar mana engkau biasanja membeli telur ajam?

39. Mau memesan bunga apa, njonja?

38. Dimana engkau biasanja membeli telur ajam?

40. Mau memilih bunga apa, njonja?

41. Menurut orang2 mobil merah itu berdjalan terlalu tjepat.

42. Menurut orang2 betjak hidjau itu berdjalan terlalu tjepat.

43. Perdjalanannja tidak begitu penting.

44. Pengalamannja tidak begitu luas.

45. Rumah itu agak ketjil untuk mereka.

46. Rumah itu agak baik untuk mereka.

47. Punggung saja sakit, dokter.

48. Aduh, sakit benar punggung saja.

49. Aduh, sakit benar leher saja.

50. Sedikitpun saja tidak tidur.

51. Sedikitpun saja tidak mengerti apa jang dikatakannja.

52. Sedikitpun saja tidak mendengar apa jang dikatakannja.

53. Semenitpun saja tidak bersedia menunggu dia.

54. Sedikitpun dia tidak mau menunggu saja.

55. Sedikitpun saja tidak makan tadi pagi.

Formalin Specimens (Misc.)

Central Sulawesi, Gunung Nokilalaki

20 December 1973

7300 ft. ASE 1143 ♀ ✓223548 Hyosciurus 320-90-57-24:315g

7520 ft. ASE 1144 ♀ ✓223531 Prosciurillus abtrusus? 290-120-43-20:135g

21 December 1973

7500 ft. ASE 1175 ♂ ✓223549 Hyosciurus 318-100-58-25:320g

22 December 1973

7500 ft. ASE 1186 ♂ ✓223550 Hyosciurus 312-95-55-24:300g

~~25 December 1973~~

~~6150 ft. ASE 1203 ♀~~

26 December 1973

5700 ft. ASE 1210 ✓ Bird 5g.

" ASE 1211 ✓ " 7g.

30 December 1973

7450 ft. ASE 1254 ♂ ✓223551 Hyosciurus 330-108-58-24:320g

5700 ft. ASE 1255 ♂ ✓223527 Thoopterus 105-X-19-19:55g

31 December 1973

6000 ft. ASE 1257 ♀ ✓223495 Crocidura nigripes 136-55-15-9:6g

5700 ft. ASE 1261 ♀ ✓223528 Thoopterus nigrescens 101-X-20-16:40g

38. Oh, tentu mereka akan suka.

39. Oh, tentu tuan akan suka.

40. Oh, tentu saudara akan suka.

41. Oh, tentu njonja akan suka.

42. Oh, tentu nona akan suka.

43. Tentu saja akan pergi.

44. Tentu mereka akan lekas tiba.

45. Tentu dia akan lekas tiba.

46. Dimana tuan kenal saudara Abdullah?

47. Dimana tuan kenal kakak saja?

48. Dimana njonja kenal kakak saja?

49. Kantor saja didjalan Merdeka Barat.

50. Kedutaan Amerika didjalan Medan Merdeka Selatan.

√ = SKIN
\ = SKULL

Tateomys rhinogradoides

√ X 1176 223966

Rattus penitus

223901 √ X 1190		223866 1045 X √	
223867 √ X 1044		223890 1153 X √	
223882 √ X 1236		223903 1217 X √	
223885 √ X 1191		223891 1085 X √	
223868 √ X 1103		223902 1216 X √	
223865 √ X 1033		223862 1086 X √	
223881 √ X 1192		223858 1019 X √	
223896 √ X 1136		223869 995 X √	
223900 √ X 1164		223863 994 X √	
223893 √ X 1108		223886 1047 X √	
223888 √ X 1048		223878 1035 X √	
223883 √ X 1268		223857 1006 X √	
223899 √ X 1154		223887 1036 X √	
223877 √ X 1625		223864 1020 X √	
223870 √ X 1008			

Rattus dominator

223639 √ X 1218	223629 1183 X √
223623 √ X 1099	1021 X √ 223606

Rattus facetus

223690 √ X 1200	223695 √ X 1271	223686 √ X 1141	223694 √ X 1260
223678 √ X 1208	223677 √ X 1204	223692 √ X 1202	223679 √ X 1017
223682 √ X 1234	223696 √ X 1278	223693 √ X 1073	223685 √ X 1140
	223697 √ X 1277	223688 √ X 1197	223684 √ X 1106
	223687 √ X 1158	223691 √ X 1261	223683 √ X 1263
	223680 √ X 1174	223681 √ X 1209	223689 √ X 1198

Rattus musschenbroekii

223792 √ X 1112	223787 1276 X √
223785 √ X 1074	223783 989 X √
223780 √ X 987	223794 1148 X √
223788 √ X 1075	

Rattus hamatus

223702 √ X 1072	223705 1213 X √
223704 √ X 1212	223703 1139 X √

Rattus hoffmanni

223749 √ X 1077	223736 √ X 992
223752 √ X 1181	223737 √ X 1167
223743 √ X 1166	223739 √ X 990
223751 √ X 1079	223755 √ X 1224
223760 √ X 1270	223753 √ X 1182
223738 √ X 991	223758 √ X 1235
223748 √ X 1223	223741 √ X 1129
223742 √ X 1150	223750 √ X 1078
223734 √ X 1076	223756 √ X 1225
223735 √ X 1281	223744 √ X 1186
223745 √ X 1030	223759 √ X 1259
223746 √ X 1222	223747 √ X 1149
223757 √ X 1226	

Eropeplus canus

√ X 1188 223556

√ X 1187 223555

Specimens in this box

Rattus dominator

223627	✓	✗	1242	1028	✗ ✓ 223611
223643	✓	✗	1239	1042	✗ ✓ 223632
223610	✓	✗	988	1086	✗ ✓ 223597
223645	✓	✗	1273	1059	✗ ✓ 223617
223612	✓	✗	1087	1011	✗ ✓ 223621
223634	✓	✗	1184	1159	✗ ✓ 223618
223624	✓	✗	1126	996	✗ ✓ 223603
223608	✓	✗	1039	1185	✗ ✓ 223635
223598	✓	✗	1105	1194	✗ ✓ 223637
223619	✓	✗	1171	1272	✗ ✓ 223644
223638	✓	✗	1195	1196	✗ ✓ 223615
223620	✓	✗	1172	1026	✗ ✓ 223607
223614	✓	✗	1280	1237	✗ ✓ 223641
223616	✓	✗	997	979	✗ ✓ 223602
223622	✓	✗	1060	1116	✗ ✓ 223599
223633	✓	✗	1170	1207	✗ ✓ 223604
223631	✓	✗	1041	1240	✗ ✓ 223613
223640	✓	✗	1219	1040	✗ ✓ 223630

Rattus musschenbroekii

✓	✗	223782 1037	✓	✗	223784 1018
✓	✗	223793 1147	✓	✗	223789 1038
✓	✗	223786 1221	✓	✗	223790 1058
✓	✗	223791 1111	✓	✗	223781 975

Eropeplus canus

1177	✗	✓	223553
1266	✗	✓	223554

Rattus marmosurus

1124	✗	✓	223775

Rattus penitus

✓	✗	223871 1034	✓	✗	223880 1134
✓	✗	223853 1007	✓	✗	223875 1135
✓	✗	223859 993	✓	✗	223897 1137
✓	✗	223861 1102	✓	✗	223875 1145
✓	✗	223894 1109	✓	✗	223860 1101
✓	✗	223872 1081	✓	✗	223884 1269
✓	✗	223873 1130	✓	✗	223879 1082
✓	✗	223892 1107	✓	✗	223890 1084

List of skins in this box

48
39

penitus

223818 x891 ✓
223828 x918 ✓
223849 x920
223806 x797 ✓
223826 x866 ✓
223827 x884
223831 x954 ✓
223822 x942 ✓
223830 x947
223810 x843 ✓
223835 x867
223846 x899
223909 x798 ✓
223905 x789 ✓
223906 x816
223821 x897 ✓
223808 x836 ✓
223819 x892
223824 x860 ✓
223850 x929 ✓
223848 x901
223843 x878 ✓
223834 x967 ✓
223813 x852 ✓
223811 x846 ✓
223907 x830
223904 x804 ✓
223812 x851 ✓
223805 x796 ✓
223838 x882 ✓
223809 x837 ✓
223816 x864 ✓
223833 x956 ✓
223836 x868 ✓
223840 x966 ✓
223829 x919 ✓
223908 x815 ✓
223852 x940 ✓
223817 x890 ✓
223823 x859 ✓
223855 x1024 ✓
223847 x900 ✓
223874 x1151 ✓
223839 x928 ✓
223854 x976 ✓
223851 x939 ✓
223876 x1009 ✓
223841 x870 ✓
223844 x879 ✓
223815 x863
223856 x977 ✓
223837 x881 ✓
223889 x1083 ✓
223832 x955 ✓
223825 x865 ✓
223814 x856 ✓
223820 x895 ✓
223807 x832 ✓
223842 x871 ✓
223845 x893 ✓

SKINS + SKULLS

hoffmanni

223712 x833 ✓
223725 x925 ✓
223716 x848 ✓
223710 x827 ✓
223709 x818 ✓
223723 x889 ✓
223726 x952 ✓
223763 x1284 ✓
223714 x838 ✓
223711 x828 ✓
223713 x835 ✓
223764 x1287 ✓ skull + carcass only
223754 x1189 ✓
223732 x926 ✓
223727 x953 ✓
223719 x888 ✓
223731 x917 ✓
223728 x963 ✓
223722 x936 ✓
223740 x1005 ✓
223715 x839 ✓
223718 x862 ✓
223733 x927 ✓
223761 x811 ✓
223720 x905 ✓
223762 x810 ✓
223724 x907 ✓
223717 x855 ✓
223730 x908 ✓
223729 x885 ✓
223721 x906 ✓

Haeromys

223961 x1265 ✓
223957 x1244 ✓
223960 x1256 ✓
223959 x1243 ✓
223956 x1227 ✓
223958 x1264 ✓

dominator

223591 x943
223596 x1031 ✓
223588 x912 ✓
223628 x1168 ✓
223583 x949 ✓
223625 x1127 ✓
223651 x819
223600 x1199 ✓
223609 x1205 ✓
223636 x1193 ✓
223578 x850 ✓
223650 x812 ✓
223585 x909 ✓
223586 x970 ✓
223580 x887 ✓
223592 x964 ✓
223581 x921 ✓
223584 x960 ✓
223574 x822 ✓
223593 x965 ✓
223642 x1238 ✓
223605 x1279 ✓
223590 x932 ✓
223595 x959 ✓
223575 x834
223579 x872 ✓
223582 x931 ✓
223594 x971 ✓
223577 x842 ← + inside
223587 x911 ✓
223647 x790 ✓
223576 x840 ✓
223648 x813
223589 x922 ✓
223646 x806 ← + inside
223649 x791 ✓
223573 x807
223626 x1241 ✓
223601 x1206 ✓

chrysocomus

223588 x799 ✓
223566 x968 ✓
223567 x820 ✓
223589 x1283 ✓

muscenbroekii

223778 x795 ✓
223779 x962 ✓
223795 x1285 ✓

marmosurus

x817 ✓
223776

arcuatus?

223558 x914 ✓
223559 x915 ✓
223560 x934 ✓
223561 x969 ✓

celebensis

x1282 ✓ 223565

tolmodectes

x1286 ✓ 223708

hamatus

223701 x821 ✓
223700 x808 ✓

Rubriventer

223552 x814 → + inside

as per
letter sent by Guy

17 January 1975

Dr. Joseph Marshall
MEDEC-ZQ-V
United States Army Medical Component
South East Asia Treaty Organization
Department of Virology
APO San Francisco 96346

Dear Dr. Marshall:

Dr. Musser asked me to send you a list of all specimens received from you.

So far we have received alcoholic specimens with the following numbers: 3, 4, 5, 6, 13, 15, 16, 19, 36, 37, 38, 39, 52, 56, 57, 79, 84, 86, 87, 88, 92+92emb., 97, 98, 102, 103, 106, 111, 112, 113, 114, 115, 118, 124, 125, 127, 131, 133, 146, 154, 155, 156, 157, 158, 159, 194, 196, 205, 206, 207, 209, 225, 228, 238, 240, 242, 248, 251, 254, 255, 257, 270, 821, 4346, 4348.

We have also received a letter from Dr. Frantz dated the 9th of January about another shipment that is on its way. It contains 10 specimens; skins and skulls, and preserved. We have not yet received it.

I hope this gives you the information you need. If you have any further questions, please don't hesitate to write to me.

Sincerely,

Norma Harris
Scientific Assistant
Archbold Expeditions

NH/gw

Dr. Joseph Martenell
WEDEC-ZO-V
United States Army Medical Component
South East Asia Treaty Organization
Department of Virology
APO San Francisco 96248

Dear Dr. Martenell:

Dr. Musser asked me to send you a list of all specimens received from you.

So far we have received arbovirus specimens with the following numbers: 3, 4, 5, 6, 13, 15, 16, 19, 36, 37, 38, 39, 25, 26, 27, 97, 84, 86, 87, 88, 89, 95+95comp., 96, 98, 102, 103, 108, 111, 112, 113, 114, 116, 118, 134, 135, 137, 138, 142, 144, 146, 148, 152, 156, 157, 158, 159, 160, 161, 162, 164, 165, 166, 167, 168, 169, 170, 172, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324.

We have also received a letter from Dr. Ernst dated the 8th of January about smoother spirament that is on its way. It contains 10 specimens: akina and akulla, and preserved. We have not yet received it.

I hope this gives you the information you need. If you have any further questions, please don't hesitate to write to me.

Sincerely,

Norma Hertig
Scientific Assistant
Arctomold Expeditions

NH\ga

Dr. Joseph Martenell
WEDEC-ZO-V
United States Army Medical Component
South East Asia Treaty Organization
Department of Virology
APO San Francisco 96248

Dear Dr. Martenell:

We have also received a letter from Dr. Ernst dated the 8th of January about smoother spirament that is on its way. It contains 10 specimens: akina and akulla, and preserved. We have not yet received it.

I hope this gives you the information you need. If you have any further questions, please don't hesitate to write to me.

Sincerely,

Norma Hertig
Scientific Assistant
Arctomold Expeditions

NH\ga

August 8, 1975

Dear Annette Barry,

Marie Lawrence and Syd Anderson have written that you are my new scientific assistant and will be taking over where Norma Harris left off. I suppose by now you are well into processing and cataloguing the specimens I sent in June. I mainly wanted to tell you two things: first, if you have any questions about anything to do with the Celebes stuff, please write me. Don't shit around with other sources, especially if you have problems about locality data or anything like that.

Second, if you have any problems with the curating, please contact Norma Harris (her address: 579 W. 215 St.; New York City). She wrote me that she would be happy to help my new assistant--so call on her. She is very nice, and very bright.

Other than those things, I can only say to take your time, be careful; Helmut can also help you and you should work closely with him.

In her last letter Norma asked for data from the following numbers. Here is the information:

2314	male	Rattus	dominator,	Sungei Sadaunta,	2800 ft.;	formalin
2385	female	Rattus	muschenbroekii,	"	2700	"
2219	male	"	chrysocomus	"	"	"
2080	female	"	hellwaldii	"	"	skin and skull
2107	male	"	chrysocomus	"	2850	"
2169	male	"	"	"	2950	"
2176	female	"	"	"	"	"

I don't understand why there isn't data for the skins and skulls, but those are the numbers Norma sent. If you have any real shitty problems place them to one side and I will sort them out when I return.

Well, I hope you are settling down in Fun City. Marie says you have already found an apartment. I am a forest and desert freak but I still find Manhattan exciting, as long as you take it as it is and don't wish you could step out from your brownstone to the edge of Grand Canyon. New York is an accumulation of tiny, provincial neighborhoods broken up by areas of commerce and other kinds of little worlds. If you are a juice freak there are many small Irish bars near the museum where you can get your rocks off for a couple bucks; a shot of joyjuice is still only 40 cents in some places. If you want to float across the line for a few cheap thrills go down to the museum restaurant and eat lunch--you'll die laughing.

I am in Palu writing from a small room in my favorite hotel and nursing a goddamn chest cold. My nurse has confined me to the room but I refuse to take any aspirin or other such kinds of medicines as long as my last bottle of Old Grand-Dad holds out. That may not be long.

Guy

ENTERIC CULTURES- BIOCHEMICAL REACTIONS

Code Number	Glucose	Lactose	Sucrose	Mannitol	Xylose	Maltose	Rhamnose	Dulcitol	Arabinose	Inositol	Salicin	Sorbitol	Adonitol	Urea Medium	Voges-Proskauer	Methyl Red	Hydrogen Sulfide Indol	Motality	Citrate	Phenylalaine	T.S.I.	Nitrate	Lysine	Malonate	Cholera Red	Oxidase	Coagulase	

found in manilla envelope marked 9/12/75

Norma,

Here are the data sheets for formalin rats, squirrels and bats from the following locality: Central Sulawesi, Sungei Sadaunta. Elevations go from 2500 to 3500 feet, with one at 1500 feet; if there is no indication of elevation next to a number, the specimen was caught at 2500 feet. A few tags came off and I have enclosed them.

Kim

U.S. NAVAL MEDICAL RESEARCH UNIT NO. 2

DJAKARTA DETACHMENT

APO SAN FRANCISCO 96356

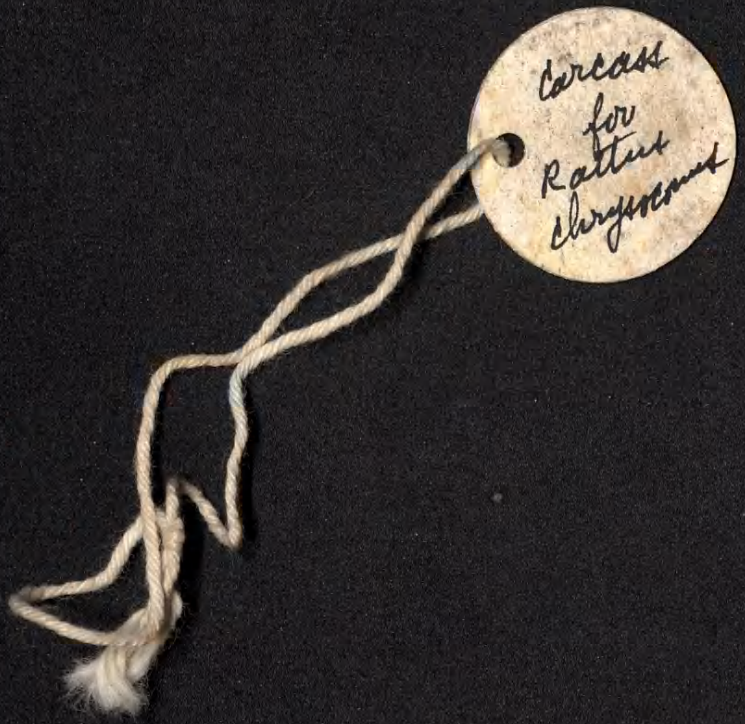
Dear Dr.

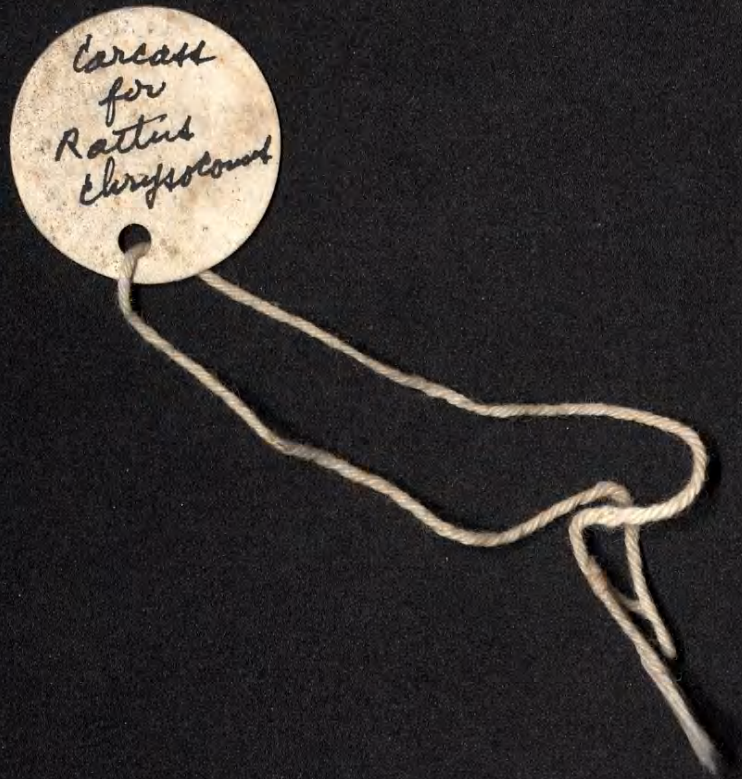
The following results were obtained on your patient

_____ from

_____ collect on

_____.


Carcass
for
Rattus
chrysocomus


Carcass
for
Rattus
Chrysocomus

Central Sul: Sungi Sedanta; 2500 ft

Rats and squirrels

19 Sept.			
224774 1990 ♂	Rattus chrysocomus	[247]-[87]-36-24: 100	
224777 23 Sept (2700 ft) 2024 ♀	" "	305-146-37-23: 113	
24 Sept			
224778 (2700 ft.) 2035 ♀	" "	300-134-35-25: 125	
224776 (2600 ft.) 2036 ♂	" "	274-128-35-21: 75	
(") 224983 2047 ♂	" hoffmanni	[215]-[31]-40-23: 140	
(2700 ft) 224986 2050 ♀	" bellmaldii	382-180-46-26: 185	
26 Sept			
(2700 ft) 224605 2060 ♂	Proscirillus murinus	240-95-35-15: 90	
" 224779 2061 ♂	Rattus chrysocomus	307-150-36-23: 111	
28 Sept			
224775 2070 ♀	" "	263-115-34-24: 90	
224780 (2700 ft) 2071 ♂	" "	270-128-36-23: 85	
" 224606 2072 ♀	Proscirillus murinus	236-100-34-15: 72	
29 Sept			
(2800 ft) 224609 2079 ♀	" "	245-95-34-15: 90	
30 Sept			
224781 (2700 ft) 2082 ♂	Rattus chrysocomus	275-131-35-24: 115	
225015 " 2088 ♀	" mamotsurus	[247]-[55]-40-23: 150	
1 Oct			
224601 2089 ♂	Proscirillus murinus	245-103-35-14: 95	
224602 2092 ♂	" "	236-100-34-15: 90	
4 Oct			
224634 (2800 ft) 2115 ♀	Rattus beccarii	—-187-28-21	
225046 (2900 ft) 2123 ♂	Echiothrix	460-247-53-33: 235	
224603 2124 ♂	Proscirillus murinus	235-105-35-15: 100	
6 Oct			
224611 (2900 ft) 2125 ♂	" "	233-103-34-15: 75	
7 Oct			
225039 (2850 ft) 2135 ♂	Rattus sp.	341-166-39-23: 145	
225014 2136 ♀	" mamotsurus	465-250-44-23: 225	

7 Oct.

(2800 ft) 2141 ♂ 224635 Rattus beccarii 252-145-27-19:35 g

8 Oct

(2700 ft) 2154 ♀ 224607 Proscirulus murinus 230-100-35-14:80

" 224852 2155 ♀ Rattus dominator 602-322-58-32:350

9 Oct

(2700 ft) 2165 224016 " marmosurus 485-260-44-23:215

(2850 ft) 2167 224984 " hoffmanni 228-110-31-18:50

10 Oct

(2800 ft) 224609 2170 ♂ Proscirulus murinus 223-100-34-14:80

(2850 ft) 224610 2171 ♂ " " 246-105-36-15:100

" 2172 ♀ 224985 Rattus hoffmanni 381-191-40-21:175

15 Oct

(2850 ft) 2191 ♀ 224854 " dominator 435-235-51-27:150

17 Oct.

(2850 ft) 2201 ♀ 224986 " hoffmanni 340-170-38-22:130

(2700 ft) 224782 2202 ♀ " chrysocomus 253-127-34-21:55

19 Oct

(2850 ft) 224987 2210 ♀ " hoffmanni 328-162-38-21:130

20 Oct

(2700 ft) 224783 2218 ♂ " chrysocomus 285-138-37-22:75

21 Oct

(2700 ft) 224784 2226 ♂ " " [235]-[88]-37-22:165

23 Oct

(2900 ft) 224791 2233 ♂ " " [285]-[128]-36-23:105

24 Oct

(2950 ft) 224795 2238 ♂ " " 310-147-36-23:115

(2700 ft) 224790 2239 ♀ " " 275-123-35-22:70

(2800 ft) 224786 2240 ♂ " " 302-140-35-23:90

25 Oct

(2800 ft) 224787 2243 ♀ " " 300-137-35-23:100

" 224788 2244 ♂ " " [240]-[95]-35-23:20

" 224789 2245 ♂ " " 263-125-35-22:55

30 Oct

(3000) 224590 2272 ♀ Rattus sp. [220]-[70]-38-22:120

31 Oct

(2800 ft) 2291 224853 ♂ " dominator 430-228-53-28:145

5 Nov

(3000 ft) 2311 224612 ♀ Proscirrillus murinus 215-80-34-13:85

6 Nov

(3000 ft) 2316 224613 ♂ " " 238-95-36-—:95

(3250 ft) 2317 224615 ♂ " " 228-100-35-14:80

(3050 ft) 224646 2318 ? Rattus celebensis Head only

(3100 ft) 225047 2319 ♀ Echinothrix special 460-241-54-35:225

(3200 ft) 224800 2320 ♂ Rattus chrysocomus 280-142-36-23:65

" 224947 2321 ♂ " hellmaldii 375-128-40-25:90

7 Nov

(3000 ft) 2325 224587 ♂ Proscirrillus leucomus 335-165-47-19:210

(3200 ft) 224801 2328a ♂ Rattus chrysocomus 243-118-34-22:55

(") 223864 2328b ♂ " dollmani 410-236-48-25:150

8 Nov.

(3300 ft) 224816 2328c ♀ Proscirrillus murinus 220-95-34-14:75

→ Norma: I gave all 3 specimens the number "2328" for some reason - you should be able to tell them apart.

8 Nov

224790 (2800 ft) 2329 ♂ Rattus chrysocomus 300-135-37-23:106

9 Nov

224802 (3200 ft) 2335 ♀ " " 278-130-35-23:95

(3400 ft) 224617 2336 ♂ Proscirrillus murinus 235-100-35-14:75

10 Nov

224857 (3500 ft) 2343 ♀ Rattus dominator 352-178-47-26:135

(3300) 225017 2344 ♂ " marmosurus [487]-[255]-44-23:250

(3000 ft) 224588 2345 ♂ Proscirrillus leucomus 352-175-48-20:200

11 Nov

(2900 ft) 224792 2346 ♂ Rattus chrysocomus 290-135-36-24: 115

(3300 ft) 224927 2350 ♂ Rubriscurius rubrimentor 515-240-71-26: 675

(3000 ft) 224796 2351 ♂ Rattus chrysocomus 316-140-37-24: 120

" 224797 2352 ♂ " " 288-137-36-22: 85

12 Nov

(3000 ft) 224628 2354 ♀ Rubriscurius rubrimentor 510-235-76-28: 710

(") 224798 2355 ♀ Rattus chrysocomus [270]-[102]-37-23: 105

" 224799 2356 ♂ " " 298-132-35-23: 105

13 Nov

(3200 ft) 224614 2361 ♂ Proscurillus marinus [205]-[68]-35-13: 80

(2900 ft) 224793 2362 ♂ Rattus chrysocomus 300-148-36-23: 130

" 224794 2363 ♂ " " 300-148-36-23: 140

15 Nov

(3350 ft) 2367 ♂ 224856 " dominator 540-285-55-31: 305

(3200 ft) 2368 ♀ 224855 " " 506-267-55-29: 225

16 Nov

(3300 ft) 224636 2371 ♀ " beccari 310-176-28-21: 72

18 Nov

(1500 ft) 225013 2373 ♀ " marmosurus 490-265-45-24: 225

19 Nov

(3275 ft) 225041 2374 ♂ Rattus sp. 330-150-40-22: 125 g

23 Nov

(2500 ft) 224851 2377 ♀ " dominator 400-210-47-27: 165

" 224945 2378 ♂ " hellwaldii 320-148-45-26: 150

24 Nov

225024 2379 ♂ " musschenbroekii [195]-[80]-32-18: 50

26 Nov

(2550 ft) 224629 2383 ♀ Rubriscurius rubrimentor 518-240-69-30: 700

30 Nov

(2650 ft) 225045 2392 ♀ Echiothrix 440-230-50-35: 215

4 Dec.

(2550 ft) 224604 2399 ♂ Proscurillus marinus 230-85-34-13: 80

Central Sulawesi, Sungei Sadaunta

(2500 ft., unless otherwise indicated)

17 Sept			
224415	1973 ♂	Cynopterus	100-8-14-16:30
18 Sept			
224542	1981 ♀	Rousettus	140-22-25-19:55
224416	1982 ♂	Cynopterus	109-10-17-18:36
arbitrarily assigned no. see 1662	224416 1983 ♂	"	105-6-15-17:32
19 Sept			
224439	1988 ♀	Thoopterus	121-x-22-17:82
224440	1989 ♀	"	124-x-22-19:97 g
21 Sept			
224441	2005 ♂	"	128-x-25-18:80 g
22 Sept.			
224543	2023 ♀	Rousettus	150-23-23-18:67
24 Sept			
224544	2066 ♀	"	147-22-23-17:65
30 Sept			
224545	2084 ♀	"	142-20-24-17:74
1 Oct			
224577	2094 ♀	Harpyionycteris whiteheadi	122-x-24-19:95
224578	2095 ♂	"	131-x-21-20:115 g
224546	2096 ♀	Rousettus	141-26-25-17:63
224547	2097 ♀	"	149-26-21-18:80
2 Oct			
224548	2102 ♀	"	147-28-22-19:60
224549	2103 ♀	"	156-29-23-18:70
3 Oct			
224550	2112 ♀	"	140-18-24-19:70
224551	2113 ♀	"	151-25-23-19:85
4 Oct			
224580	2121 ♀	small bat → Hesperoptenus (as per KPK)	101-40-10-13 (tr.7):15
224442	2122 ♀	Thoopterus	122-5-20-17:55

5 October

224552	2129 ♀	Rousettus	153-23-23-19:70

4 Oct.

224443	2131 ♀	Thoopterus	117-X-20-18:75
224553	2132 ♀	Rousettus	145-27-23-17:60

9 Oct

224418	2164 ♀	Cynopterus	109-9-19-17:37

11 Oct

224419	2180 ♀	"	103-8-17-16:30
224554	2181 ♀	Rousettus	145-30-24-19:60

12 Oct

224444	2184 ♂	Thoopterus	97-X-21-17:45

13 Oct

224555	2185 ♀	Rousettus	154-28-22-18:74
224445	2186 ♀	Thoopterus	116-5-21-16:40
224446	2187 ♀	"	112-3-20-18:40

14 Oct

224420	2188 ♀	Cynopterus	100-4-15-15:30
224478	2189 ♂	~~Small bat~~ chiroptera (KFK)	64-X-12-12:16
224479	2190 ♂	"	64-X-11-12:15

19 Oct.

224447	2213 ♀	Thoopterus	90-X-20-15:45
224448	2214 ♂	"	130-6-21-16:70

20 Oct

224575	2217 ♂	Macroglossus lagochilus (as per KFK)	64-X-13-17:15

23 Oct

224449	2237 ♀	Thoopterus	120-X-21-17:80

27 Oct

224450	2254 ♀	"	113-X-20-17:67
224451	2255 ♂	"	125-X-19-18:100
224452	2256 ♀	"	125-5-21-18:65
224453	2257 ♂	"	125-X-21-18:85

28 Oct

224556	2261 ♀	Rousettus	157-30-23-18:79

29 Oct			
224557	2267 ♀	Ronsettius	142-25-25-19:60
224454	2268 ♂	Thoopterus	103-X-21-17:50
224455	2269 ♂	"	118-X-21-17:78
224456	2270 ♀	"	106-X-19-16:53
30 Oct.			
224558	2275 ♀	Ronsettius	156-29-24-19:75
224559	2276 ♀	"	146-28-25-20:62
224560	2277 ♀	"	145-22-25-18:75
224561	2278 ♀	"	150-24-24-18:80
224457	2279 ♀	Thoopterus	100-X-20-15:45
31 Oct			
224562	2285 ♂	Ronsettius	150-25-23-19:85
224563	2286 ♀	"	140-23-25-20:58
224564	2287 ♀	"	128-22-23-17:50
224565	2288 ♀	"	146-25-25-18:68
224566	2289 ♀	"	141-25-24-19:58
224458	2290 ♀	Thoopterus	103-5-19-17:43
1 Nov			
wrong # 224567	2295 ♀	Ronsettius	135-25-24-18:50
2 Nov			
224459	2300 ♀	Thoopterus	116-X-21-17:79
3 Nov			
wrong # 224568	2304 ♀	Ronsettius	143-21-23-19:70
4 Nov			
224460	2323 ♂	Thoopterus	125-X-20-18:85
224461	2324 ♂	"	125-X-19-17:85
8 Nov			
224462	2331 ♂	"	119-X-21-18:75
12 Nov			
224463	2357 ♂	"	125-X-21-18:25
224464	2358 ♂	"	112-X-21-15:55

17 Nov

224465 ✓ 2372 ♀ Thoopterus 125-X-21-18: 82

24 Nov

224466 ✓ 2380 ♀ " 127-5-21-16: 70

224569 ✓ 2381 ♀ Romsettius 123-27-21-18: 43

25 Nov

✓ 2382 ♀ (224421) Cynopterus 85-6-15-14: 18

29 Nov

224570 ✓ 2389 ♀ Romsettius 153-27-24-17: 70

224571 ✓ 2390 ♀ " 147-26-24-17: 73

224467 ✓ 2391 ♂ Thoopterus 100-X-22-16: 45

1 Dec.

224572 ✓ 2394 ♀ Romsettius 153-25-25-18: 88

224573 ✓ 2395 ♀ " 137-25-23-18: 60

224574 ✓ 2396 ♂ " 121-22-24-18: 45

2 Dec

224468 ✓ 2397 ♀ Thoopterus 121-X-20-16: 80

R. hellwaldii

2034 224916
2039 224917
2069 224918
2078 224919
2080
2087 224932
2108 224926
2114 224920
2120 224927
2137 224928
2138 224929
2139 224930
2140 224931
2199 224921
2228 224934
2253 224933
2262 224922
2263 224925
2271 224923
2273 224935
2292 224924
2305 224941
2333 224942
2334 224939
2341 224936
2342 224943
2359 224937
2365 224940
2366 224944
2369 224938
2950

R. hoffmanni

1828 224957
1860 224958
1868 224955
2012 224960
2040 224962
2054 224963
2063 224964
2074 224965
2075 224971
2126 224959
2128 224979
2151 224973 (extra tag in mouth)
2152 224974
2158 224966
2159 224975
2160 224980
2172 224976
2209 224967
2211 224977
2224 224978
2232 224968
2241 224969
2248 224970
2258 224972
2308 224982
2386 224967

R. mamosurus

1912 224996
2052 225000
2064 225001
2065 225002
2068 225003
2077 225009
2104 225004
2130 225005
2134 225007
2164 225011
2182 225006
2183 225008
2220 225010
2274 225012

R. muschenbroeki

1650 225018
1984 225020
1985 225021
2157 225023
2259 225024
2294 225025
2393 225022

R. species

2051 225027
2073 225028
2090 225034
2100 225035
2116 225029
2250 225030
2260 225031
2302 225036
2307 225037
2322 225038
2387 225032
2398 225033

R. hoffmanni

1677 224956
1706 224948
1707 224949
1708 224950
1721 224951
1734 224952
1735 224953
1750 224954

R. mamosurus

1678 224988
1711 224989
1722 224990
1733 224991 +2 ...
1747 224992 (extra tag)
1799 224993
1845 224997
1822 224994
1846 224995

Echiothrix

2124 225043
2327 225044

Prosciurillus leucomus

2037 224582
2059 224581
2119 224584
2194 224583
2223 224585
2281 224586

P. murinus

1709 224591
1877 224593
1886 224592
1887 224595
1898 224594 (tag off)
2062 224596
2224 224598
2265 224599
2266 224600
2303 224597 (no tag)

Rubrisciurus rubriventer

1758 224621
1789 224622
1893 224623
1995 224624
2006 224625
2033 224626

Hyoscirus sp.

2225 224618
2293 224620
2348 224619

Oxinomys sp.

2280 225042

Spare tags

2303 → extra squirrel at end
1975
1987
2151
} 5 specimens

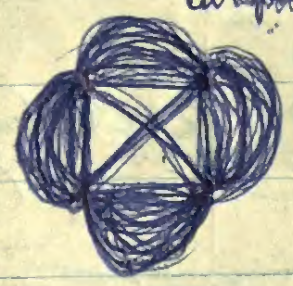
3 extra R. chrysocomus carcasses go with 3 extra tags sent by GGM
#2028
2029
2041 - carcasses unidentifiable

no date (1)
2107
2176
1905
1896
2169
2080
2950
+2 with no tags

skin = ✓
skull = ✓
carcass = ✓

1 extra skin with no number - looks like R. hellwaldii

skins - 370 (+1 with no number)
skulls - 368
carcasses - 264 +7 unknown



[illegible]

R. perseus

1649 224630
1838 224631
1845 224632
1858 224633

R. callitrichus

2192 224637
2310 224638

R. celebensis

1851 224640
1966 224639
2053 224641
2249 224642
2301 224643
2347 224644
2326 224645

R. chrysocomus

1751 224648
1752 224649
1823 224647
1824 224654
1825 224655 (agoot)
1826 224656
1827 224657
1831 224650
1832 224658
1839 224659
1840 224668
1841 224660
1844 224651
1852 224661
1853 224662
1854 224663
1855 224669
1856 224670
1857 224671
1859 224652
1866 224664
1869 224672

R. chrysocomus

1870 224673
1871 224674
1872 224675
1873 224676
1878 224666
1885 224677
1888 224665
1889 224667
1890 224678
1891 224681
1892 224682
1900 224683
1901 224684
1902 224685
1905 224679
1906 224686
1907 224687
1911 224680
1921 224688
1957 224653
1974 224692
1975 224693 (tagoff)
1976 224694
1977 224708
1978 224709
1979 224717
1986 224695
1987 224696 (extra tag)
1991 224710
1992 224718
1996 224697
1997 224698
1998 224699
1999 224711
2000 224719
2001 224720
2002 224721
2003 224722
2004 224723

R. chrysocomus

2007 224724
2008 224712
2009 224725
2010 224726
2011 224700
2013 224727
2014 224713
2015 224714
2016 224728
2017 224729
2018 224730
2019 224731
2020 224732
2021 224733
2022 224750
2026 224701
2027 224734
2028 224735 (extra tag)
2029 224736 (extra tag)
2030 224737
2031 224702
2032 224703
2041 224704 (extra tag)
2042 224738
2043 224715
2044 224716
2045 224751
2046 224739
2055 224705
2057 224752
2058 224740
2067 224741
2085 224742
2086 224756
2098 224757
2099 224758
2105 224706
2106 224761
2107 224743
2109 224707
2110 224760
2161 224762

R. chrysocomus

2168 224743, 224766
2169
2173 224744
2174 224745
2175 224753
2176 224767
2179 224763
2195 224746
2196 224764
2197 224768
2203 224747
2204 224765
2208 224749
2206 224748
2251 224754
2282 224755
2297 224769
2332 224770
2340 224771
2353 224772
2376 224773

R. dominator

1788 224803
1876 224805
1948 224804
1980 224806
2025 224814
2038 224807
2049 224808
2076 224809
2081 224810
2083 224815
2091 224849
2093 224820
2101 224811
2117 224821
2118 224822
2127 224828
2133 224823
2153 224824
2157 224829
2163 224833

R. dominator

2193 224825
2198 224812
2200 224850
2205 224813
2207 224848
2216 224830
2230 224816
2231 224826
2232 224827
2234 224817
2238 (224837 or 2233?)
2246 224818
2247 224831
2252 224835
2264 224838
2296 224839
2298 224832
2299 224836
2306 224840
2309 224844
2312 224843
2313 224845
2330 224841
2335 (224834 or 2235?)
2337 224819
2339 224842
2349 224837
2364 224846

R. dollmani

2178 224858
2236 224859
2242 224860
2283 224861
2284 224862
2360 224863

R. hellwaldii

1651 224865
1658 224866
1679 224867

R. hellwaldii

1695 224868
1704 224869
1764 224870
1773 224871
1774 224872
1779 224905
1780 224873
1790 224874
1800 224875
1801 224876
1803 224906
1811 224877
1813 224878
1814 224907
1830 224879
1837 224880
1843 224881
1850 224882
1890 224883
1895 224884
1896
1899 224886
1908 224887
1910 224888
1920 224909
1922 224889
1923 224890
1924 224891
1930 224892
1931 224893
1939 224894
1947 224895
1949 224896
1953 224897
1954 224898
1956 224948
1958 224949
1964
1965
1969
1971
19

\ = skin
/ = skull
✓ = carcass

146 skins

1/5

Prosciurillus leucomus [redacted]

2059 2119
2223 2194
2037

Rattus hoffmanni

2075 2160 2308 2229 2215
2177 2152 2054 2040 2158
2012 2209 2258 2074 2126
2151 2222 2159 2211

Rattus chrysocomus

2026 1992 2206 2376 1991
2028 2014 2109 2203 1999
2045 2106 1996 2179 2208
2029 2019 2105 1974 2110
2021 1987 2017 1975 1979
2004 2086 2008 2099 2003
2043 2018 2196 2173 2055
1998 2044 1976 2016 2007
1997 2022 1986 2042 2058
2015 2067 2032 2204 2057
2027 2031 2000 2175 2046
2174 2161 2085 2168 2020
2041
1977
2010
2332

Rattus mammosumus

2130 2065 2164
2182

Rattus mussehenbroekii

2393 2294 2157
1985 1984

Rattus dominator

[redacted] 2207 2117
2091 2200 2364
2133 1980 2313
2312 2198 2349

Rattus hellwaldii

2039 2292 2334
2228 2078 2139
2305 2120 2138
2271 2253 2359
1993 2262 2369
2365 2034 2114

Prosciurillus murinus

2303 2266 2062
2245 2224

Rattus sp.

2116 2100 2073
2090 2051 2398
2307 2322 2387

Rattus callitrichus

2310

Rattus dollmani

2236

~~R. chrysocomus~~
+12 169, 2107, 2176 +1 with no number (looks like hellwaldii)

SKINS in this Box

Rattus chrysocomus

1957 1872 1891
1907 1889 ~~1874~~
1751 1844 1901
1825 1902 1900
1906 1941 1852
~~1874~~ 1871 1911
1827 1870 1824
1832 1840 1831
1826 1873 1752
1890 1839 1856
1892 1857 1853
1869
1905

Rattus hellwaldii

1658 1651 1679
1779 1814 1790
1949 1803 1899
1764 1969 1947
1965 1922 1800
1811 1774 1704
1801 1916 1956
1954 1773 1780

Rattus adspersus

1858
1838
1649
1845

Rattus hoffmanni

1708
1706
1828

Rattus celebensis

1966

Rattus marmosurus

1678 1815
1722 1822
1846 1912
1799 1747

735/Cms

Norma

You will find 1 skin not listed here – that is R. chrysocomus.
(1905)

in kampongs throughout Malaya
... *rumbia*, **Metroxylon sagu**, Sago Palm.
Wild palms of forest undergrowth with short trunk or none, 14

14 Inflorescence a big terminal spike
... *bertam*, **Eugeissona** (2 spp.).
Inflorescence a big stout crowded terminal cluster
... *kelubi*, **Salacca conferta.**
Inflorescence stalk bursting through base of leaf sheath
... *salac*, **Salacca** (7 spp.).
Inflorescence atalk fused to leaf sheath
... some **Calamus, Cornera** and **Daemonorops,** the rosette rattans.

15 Distinct tubular crown shaft present, 16
No distinct crown shaft present, 23

16 Crown shaft orange-red. Peat swamp forests. Sometimes cultivated
... *pinang raja*, **Cyrtostachys lakka,** Sealing Wax Palm.
Otherwise, 17

17 Cultivated palms, 18
Wild forest undergrowth palms, 21

18 Clump forming palm with yellowish crown shaft
... **Chrysalidocarpus lutescens.**
Big solitary palms, crown shaft green, 19

19 Leaves held vertically, flat, leaflets in 2 rows only. Crown diffuse, of only about 6 leaves
... **Dictyosperma album,** Princess Palm.
Leaves tousled with the leaflets twisting at least near the tip. Crown dense with numerous leaves, 20

20 Stem slender, columnar. Leaflets in 2 rows, but strongly twisted and drooping at their tips. Fruits bright red, edible ... **Veitchia merrillii.**
Stems stout, usually bulging. Leaves at least at the tip, and often throughout, tousled from leaflets in 4 ranks. Fruits brownish red, purple, or black
... **Roystonea,** Royal Palms.

21 Female flowers (and fruits) near bases of spikes, flanked by 2 smaller males; male flowers only near spike tip
... *pinang*, **Areca** (3 spp.).
Female flowers (and fruits) along at least half length of spikes, smaller than or equal to males *legong, pinang,* 22

22 Seed with scar all along one side and endosperm developed as an apical beak, surface with a close net of conducting bundles. Inflorescence with a few long spreading to hanging atout spikes ... **Nenga** (2 spp.).
Seed scar basal, endosperm apex rounded; conducting bundlea forming a diffuse open net. Inflorescence otherwise ... **Pinanga** (25 spp.).

23 Small forest undergrowth palms, usually forming small clumps, 24
Big palms to 50 ft. tall. Solitary except Metroxylon, 25

24 Leaflets very narrow, linear. Flowers on the spike. Fruits symmetrical ... *kerinting*, **Ptychoraphis.**
Leaflets broader. Flowers sunken in the spike. Fruits very asymmetrical ... some **Iguanura** *(pinang)*.

25 Clump forming palm with huge terminal inflorescence. Rarely cultivated in moist places
... *rumbia*, **Metroxylon rumphil,** Sago Palm.
Palms with solitary stems, 26

26 Leaflets greyish below. Wild. Forested hillsides
... *ibul*, **Orania sylvicola.**
Leaflets green below. Cultivated, 27

27 Trunk smooth,
... *kelapa, niyor*, **Cocos nucifera,** coconut.
Trunk for a long time rough. Naturalized in a few places
... *kelapa bali/sawit*, **Elaeis guineensis,** oil palm.

Key to Fan Palms

(palms with leaflets arranged in a fan-like manner)

1 Trunk with open dichotomous branches. Rare. Cultivated ... **Hyphaene,** Doum Palm.
Trunk unbranched, 2

2 Leaflets compound, with several folds and blunt jagged tips, 3
Leaflets simple, pointed or forked, 4

3 Inner leaflets divided at a trough so induplicate. Common forest undergrowth palm. Rarely cultivated
... *palas*, **Licuala** (25 spp.).
Inner leaflets divided nearly at a trough, some margins induplicate the others reduplicate; leaflet margins toothed. Cultivated palm forming low extensive clumps
... **Rhapis,** China Cane (cult.).

4 Leaf atalks smooth, or with small inconspicuous irregular teeth, 5
Leaf stalks armed with long strong spines (= subfam. Coryphoideae in part), 10

5 Big tree palms with massive stout pendulous inflorescences and big fruits (= subfam. Borassoideae), 6
Small slender palms of limestone hills with slender erect inflorescences, 9

6 Leaves dark blackish green with untidily drooping leaflets. Leaf stalk with knife-sharp edges. Wild and cultivated ... **Borassodendron machadonis.**
Leaves greyish; leaflets stiff, held flattish or drooping at tips only. Cultivated, 7

7 Leaves intensely whitish-grey, sometimes mealy, tinged reddish on young trees. Uncommon ... **Latania,** (cult.).
Leaves with a blue-grey waxy bloom, 8

8 Leaf blade roundish, only 3 – 4 ft. across, very stiff. Crown dense. Leaf stalk with tiny irregular teeth. Common ... *lontar, tal*, **Borassus flabellifer,** Palmyra.
Leaf blade diamond-shaped, huge, 12 ft. long. Leaf stalk not toothed. Rare
... **Lodoicea maldivica,** Double Coconut (cult.).

9 Selangor limestone ... **Maxburretia rupicola.**
Langkawi limestone ... **Liberbaileya gracilis.**

Please be careful & take care when you compose.
Thanks, Guy

Rattus marmosurus

2134 2077
2068 2064
2104 2052
2274 2270
2183

Rattus dominator

2163 2026
2330 2038
2193 2234
~~[illegible]~~ 2238 - skin tag says 2338 ✓
2025 2252
2244

Rattus hellwaldii

2333 2199
2108 2140
2366 2069
2273 2087
2342 2341

Echiothrix sp.

2327
2124

Rattus hoffmanni

2386 2128
2241

Rattus sp.

2250
2260

Rattus dollmani

2178 2283 2284

Rattus celebensis

2053
2347
2301
2326
2247

Rattus chrysocomus

2297

Prosciurillus leucomus

2281

46 skins

of Pat's successor (Pat leaves in Aug 74), but we can assure you of continuing support beyond this summer, although airlifts may be somewhat fewer than up to now. I'll know more about all this by May, but for your purposes, plan on whatever help you need from us.

(5) The addressing of mailing labels so far has been okay, except you shouldn't add "U.S.A." I'm enclosing some more lables, and one sample for mailing to AMNH. You're quite right about return address- all must have a return address. We'll take care of any that need this before we send off for you.

Hope all okay with you and Margarethe. I'll try to send a bottle or 2 this lift. And don't hesitate to let us know of any needs.

I've greatly appreciated your comments on the different rodents, particularly Rattus and the other genera from high up. If at all possible, I'd surely like to eyeball examples of those we've never seen - maybe in April or May when I come through, or if you have one or two, you'd like us to hold here for you until you come out, I'd be able to see what they look like. Beasts like the R. penitus, R. facetus, R. hamatus, the "True" musschenbroekii, the "True" hellwaldi.

Best,

Dick

P.F.D. Van Peenen
Captain MC USN
Officer in Charge

SKINS

4/5

Rattus dominator

2337 2081 [redacted]
2230 2101 2049
2153 2335 2154
2296 2299 2247
2232 2246 [redacted]
2309 2306 2298
2127 2231 2339
2205 2093 2083
2118 2216

5 km fan Sang 2235

Rattus sp.

2302

Rattus chrysocomus

2195 2098 2030
1978

Rattus hellwaldii

2137 2263

Rattus callitrichus

2192

Rattus hoffmanni

2063

Rattus dollmani

2242

Rubrisciurus rubriventer

1995 2033 2006

Hyosciurus sp.

2225
2342
2293

40 skins

I can appreciate the difficulties you have in trying to process the animals, and so, if you can't collect blood I'll understand though of course be a little disappointed. One person can do only so many things and I'm well aware of how overwhelming it can become; I will be pleased to have whatever you are able to collect for me. I am glad you're getting lots of rats and chromosome material, and if there is a chance to get even some rat serum that will be a bonus.

I'm in the process now of beginning to use the immunodiffusion comparison technique to look at rodent families and subfamilies, thanks to a small university research grant. I'm getting representatives of as many subfamilies as possible - it may not work, but I think there's good reason to have a look. I'm particularly anxious to compare some of the South American and African hystricomorphs but am having difficulty getting African stuff. The squirrel work continues; I've about completed a portion of the ground squirrel study including ten species of Spermophilus from Russia. We finally got some Xerus so will compare that to Spermophilopsis, which of course, is immensely divergent antigenically from all the North American ground squirrels. The survey of the Sciuridae, the dissertation work, is coming out in this month's Systematic Zoology. I'll be giving papers on the ground squirrel work at Mammalogist's meeting and in Moscow. So, am pushing on.

I got a 1 yr. temporary job teaching physiology and anatomy to nursing students this past year. Classes were over the middle of April so now I'm spending full time on the research and loving it. But I'm afraid I shall have to look for another job for next year since it appears that I couldn't compete successfully with full-fledged physiologists and anatomists for the job here next year. I'll be here at least through 15 August, then move back in with Dr. Prychodko at Wayne if nothing develops here for next year.

Well, that's the news from this end. Keep up the great work. Incidentally, I'm sure your 10 min. spin of the blood was adequate. Be sure to let me know if there's anything you need from this part of the world to make your work go better. I'm sorry I'm not filthy rich or I'd drop down in the jungle with you all and help with all the work!

All best wishes,

Sincerely,

S/Kins

Rubriscirrus rubriventer

1758 1789 1893

Rattus hoffmanni

1721 1860 2248
1734 1707
1750 1868
1477 1735

Rattus makmosukus

1733
1711

Rattus muschenbroekii

1650 2259

Rattus dominator

1948
1826
1788

Rattus celebensis

1851

Rattus hellwaldii

1953 1930 1837
1920 1924 1939
1695 1830 1970
1958 1890 1897
1850 1964 1895
1931 1813 1843
1908 1923

Rattus chrysocomus

1866 1855 2009
2340
1885 1823 2002
1878 1854 2001
1921 1888 2197
1859 2282 2251
2013 2011
2353

Proscirrillus murinus

1887
1898
1886
1877
1709

Rattus dollmani

2360

Crunomys sp.

2280

66 skins

1 = skin
/ = skull

Upper stem thin as a chopstick: a few *Calamus* (mainly mountains)

Always solitary: *Plectocomia*

Always tufted: *Ceratolobus, Korthalsia, Myrialepis, Plectocomiopsis*

THE LEAF

Leaflets fishtail shape:

1 Leaf sheath with a spiny whip; stalk swollen at base. Leaf without whip-like tip ... *Calamus*, 3 spp. (*C. blumei, C. mawaiensis, C. tomentosus*).

Leaf sheath without a whip, 2

2 Leaf stalk with a swollen base; ochrea tiny, soon dropping; leaflets almost sessile. Rare ... *Ceratolobus kingianus*.

Leaf stalk not swollen at base; sheath with a prominent ochrea; leaflets stalked, grey to chalky white beneath. Common ... *Korthalsia*, except *K. echinometra*.

Leaf sheath with an ochrea:

1 Ochrea 0.8 – 12 in. long, prominent, persistent, often inflated. Leaflets grey to chalky white beneath ... *Korthalsia*.

Ochrea smaller, often dropping off, never inflated ... *Calamus, Ceratolobus, Cornera, Daemonorops, Plectocomiopsis corneri*.

THE INFLORESCENCE

Terminal inflorescence: *Korthalsia, Myrialepis, Plectocomia, Plectocomiopsis*

Lateral inflorescences: *Calamus, Calospatha, Ceratolobus, Cornera, Daemonorops*

Flowering as rosettes: some *Calamus*, some *Cornera*, some *Daemonorops*

371 skins

SPECIMENS IN FORMALIN

Central Sulawesi, Gunung Kanino:

ASE 2401	female	Rattus penitus	4750 ft.	January	17,	1975
ASE 2404	male	" "	4960 ft.	"	18	"
ASE 2405	female	Bat	4750 ft.	"	19	"
ASE 2417	male	Macroglossus	4650 ft.	"	20	"
ASE 2427	male	Rattus penitus	5300 ft.	"	23	"
ASE 2436	female	" "	4960 ft.	"	24	"
ASE 2446	male	Prosciurillus murinus	4650 ft.	"	26	"
ASE 2471	female	Thoopterus	4650 ft.	"	31	"
ASE 2474	female	Rattus penitus	4800 ft.	"	31	"
ASE 2478	female	Prosciurillus murinus	4650 ft.	February	1	"
ASE 2479	female	Thoopterus	"	"	1	"
ASE 2480	male	"	"	"	1	"
ASE 2488	female	Bat	"	"	2	"
ASE 2489	female	Thoopterus	"	"	2	"
ASE 2490	male	"	"	"	2	"
ASE 2491	male	"	"	"	2	"
ASE 2492	male	"	"	"	2	"
ASE 2493	male	"	"	"	2	"
ASE 2497	male	"	"	"	3	"
ASE 2498	male	"	"	"	4	"
ASE 2499	female	"	"	"	4	"
ASE 2500	male	"	"	"	5	"
ASE 2501	female	"	"	"	5	"
ASE 2510	male	"	"	"	6	"
ASE 2511	female	"	"	"	6	"
ASE 2513	female	Prosciurillus murinus	"	"	8	"
ASE 2519	female	Thoopterus	"	"	8	"
ASE 2521	male	"	"	"	9	"
ASE 2522	male	"	"	"	9	"
ASE 2528	male	"	"	"	11	"
ASE 2534	female	"	"	"	13	"

Central Sulawesi, Gunung Nokilalaki:

ASE 2548	female	Cynopterus	5700 ft.	February	22,	1975
ASE 2549	female	Thoopterus	5750 ft.	"	22	"
ASE 2551	female	Crocidura	5700 ft.	"	23	"
ASE 2560	female	Thoopterus	5750 ft.	"	25	"
ASE 2562	female	"	"	"	26	"
ASE 2567	female	"	"	"	27	"
ASE 2574	female	Eropeplus canus	7250 ft.	"	28	"
ASE 2579	female	Thoopterus	5750 ft.	March	1	"
ASE 2580	female	"	"	"	1	"
ASE 2581	male	Cynopterus	5700 ft.	"	1	"
ASE 2584	female	Thoopterus	"	"	2	"
ASE 2588	male	Crocidura	"	"	3	"
ASE 2589	male	Crocidura rhoditis	7500 ft.	"	3	"
ASE 2590	female	Rattus marmosurus	7200 ft.	"	3	"
ASE 2591	male	Crocidura rhoditis	7100 ft.	"	4	"

G. Nokilalaki, continued:

ASE 2597 female	Crocidura	7500 ft.	March 5,	1975
ASE 2598 female	Crocidura rhoditis	7500 ft.	" 5	"
ASE 2599 female	" "	"	" 5	"
ASE 2600 male	" "	"	" 5	"
ASE 2601 female	Thoopterus	5700 ft.	" 5	"
ASE 2609 female	"	5750 ft.	" 6	"
ASE 2627 male	Long-tailed shrew mouse	7500 ft.	" 10	"
ASE 2635 female	Crocidura	7500 ft.	" 10	"
ASE 2636 male	"	"	" 10	"
ASE 2643 female	"	"	" 12	"
ASE 2651 female	"	"	" 14	"
ASE 2652 male	"	6500 ft.	" 14	"
ASE 2662 male	"	6300 ft.	" 16	"
ASE 2673 female	"	7200 ft.	" 17	"
ASE 2674 male	"	7400 ft.	" 17	"
ASE 2679 female	Rattus penitus	"	" 18	"
ASE 2685 female	Rattus hoffmanni	7500 ft.	" 18	"
ASE 2701 male	Rattus penitus	"	" 21	"
ASE 2704 male	Tree mouse	7400 ft.	" 21	"
ASE 2705 male	Melasmothrix naso	7500 ft.	" 22	"
ASE 2714 male	Crocidura rhoditis	6600 ft.	" 24	"
ASE 2720 male	Rattus hoffmanni	7500 ft.	" 24	"
ASE 2721 female	Tree mouse	7400 ft.	" 24	"
ASE 2722 female	Crocidura rhoditis	"	" 25	"
ASE 2727 female	Thoopterus	5700 ft.	" 25	"
ASE 2730 male	Rattus hoffmanni	7400 ft.	" 25	"
ASE 2732 male	Melasmothrix naso	6700 ft.	" 26	"
ASE 2733 female	Crocidura	7400 ft.	" 26	"
ASE 2742 female	Melasmothrix naso	7500 ft.	" 27	"
ASE 2751 male	Thoopterus	5700 ft.	" 28,	"
ASE 2755 female	"	"	" 29	"
ASE 2756 female	"	"	" 29	"
ASE 2765 female	Rattus muschenbroekii	7400 ft.	" 30	"
ASE 2770 male	Thoopterus	5700 ft.	" 31	"
ASE 2771 female	"	"	" 31	"
ASE 2772 female	"	"	" 31	"
ASE 2778 male	Tree mouse	7400 ft.	" 31	"
ASE 2781 female	Thoopterus	5700 ft.	April 1,	1975
ASE 2782 male	"	"	" 1	"
ASE 2783 female	"	"	" 1	"
ASE 2784 female	"	"	" 1	"
ASE 2785 female	"	"	" 1	"
ASE 2786 female	"	"	" 1	"
ASE 2788 female	Tree mouse	7350 ft.	" 1	"
ASE 2790 female	Rattus penitus	7300 ft.	" 1	"
ASE 2792 male	Crocidura rhoditis	7250 ft.	" 2	"
ASE 2794 female	Thoopterus	5700 ft.	" 2	"
ASE 2795 female	"	"	" 2	"
ASE 2799 male	Rattus facetus	7300 ft.	" 2	"
ASE 2801 female	Rattus muschenbroekii	7200 ft.	" 3	"
ASE 2803 female	Thoopterus	5700 ft.	" 3	"
ASE 2807 female	Crocidura	7400 ft.	" 4	"
ASE 2812 male	Eropeplus canus	7250 ft.	" 5	"
ASE 2813 male	Rattus muschenbroekii	7500 ft.	" 6	"
ASE 2814 female	Thoopterus	5700 ft.	" 6	"
ASE 2817 female	Bat	6800 ft.	" 7	"

G. Nokilalaki, continued:

ASE 2822	female	Crocidura rhoditis	7500 ft.	April	8,	1975
ASE 2830	?	Rattus musschenbroekii	7500 ft.	"	9	"
ASE 2836	female	Rattus hoffmanni	7400 ft.	"	9	"
ASE 2842	female	Bat	6100 ft.	"	10	"
ASE 2846	male	Crocidura	7500 ft.	"	11	"
ASE 2851	female	Bat	6100 ft.	"	11	"
ASE 2853	male	Crocidura	7500 ft.	"	11	"
ASE 2854	male	"	"	"	12	"
ASE 2855	female	Crocidura elongata	"	"	12	"
ASE 2856	male	Prosciurillus murinus	7000 ft.	"	12	"
ASE 2857	female	Hyosciurus	6500 ft.	"	12	"
ASE 2867	female	Thoopterus	6100 ft.	"	13	"
ASE 2870	female	Bat	7500 ft.	"	14	"
ASE 2872	female	Rattus musschenbroekii	7400 ft.	"	14	"
ASE 2874	male	Bat	6100 ft.	"	15	"
ASE 2890	male	Bat	"	"	18	"
ASE 2894	female	Rattus muschenbroekii	7400 ft.	"	18	"
ASE 2900	male	Crocidura	7400 ft.	"	20	"
ASE 2908	male	Rattus musschenbroekii	7500 ft.	"	21	"
ASE 2910	female	Thoopterus	7000 ft.	"	22	"
ASE 2911	female	"	"	"	22	"
ASE 2912	"	"	"	"	22	"
ASE 2913	"	"	"	"	22	"
ASE 2914	"	"	"	"	22	"
ASE 2915	"	"	"	"	22	"
ASE 2916	male	"	"	"	22	"
ASE 2917	female	"	"	"	22	"
ASE 2918	female	"	"	"	22	"
ASE 2919	male	"	"	"	22	"
ASE 2922	male	Crocidura	7400 ft.	"	22	"
ASE 2926	female	Thoopterus	7000 ft.	"	23	"
ASE 2927	"	"	"	"	23	"
ASE 2928	"	"	"	"	23	"
ASE 2929	"	"	"	"	23	"
ASE 2932	male	Melasmothrix naso	7400 ft.	"	23	"
ASE 2934	female	Thoopterus	7000 ft.	"	24	"
ASE 2935	female	"	"	"	24	"
ASE 2936	male	"	"	"	24	"
ASE 2943	female	"	"	"	25	"
ASE 2944	female	"	"	"	25	"
ASE 2946	?	Melasmothrix naso	7400 ft.	"	25	"
ASE 2947	male	Rattus muschenbroekii	7400 ft.	"	25	"
ASE 2948	female	Long-tailed shrew mouse	7400 ft.	"	25	"
ASE 2952	male	Crocidura	7400 ft.	"	26	"
ASE 2953	male	Rattus hoffmanni	"	"	26	"
ASE 2954	female	Thoopterus	7000 ft.	"	26	"
ASE 2955	female	"	7500 ft.	"	26	"
ASE 2962	female	"	7000 ft.	"	27	"
ASE 2966	male	Melasmothrix naso	7400 ft.	"	28	"
ASE 2968	female	Rattus penitus	7400 ft.	"	28	"
ASE 2969	male	Melasmothrix naso	7400 ft.	"	29	"
ASE 2975	male	Thoopterus	7000 ft.	"	30	"
ASE 2976	male	"	6100 ft.	"	30	"
ASE 2979	female	Crocidura rhoditis	7400 ft.	"	30	"
ASE 2986	female	Thoopterus	6100 ft.	May	1	"

G. Nokilalaki, continued:

ASE 2992	female	Rattus facetus	6350 ft.	May 3,	1975
ASE 2993	female	Thoopterus	6100 ft.	" 4	"
ASE 2994	female	"	"	" 4	"
ASE 2997	female	"	"	" 5	"
ASE 2998	female	"	"	" 5	"
ASE 3000	female	Crocidura elongata	5900 ft.	" 7	"
ASE 3007	male	Thoopterus	6100 ft.	" 8	"
ASE 3011	male	Crocidura	5900 ft.	" 10	"
ASE 3023	female	Rattus facetus	6000 ft.	" 11	"

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ASE 3027	male	Thoopterus	5000 ft.	May 12,	1975
ASE 3028	male	"	"	" 12	"
ASE 3029	male	"	"	" 12	"
ASE 3030	male	"	"	" 12	"
ASE 3031	male	Rattus muschenbroekii	5040 ft.	" 12	"
ASE 3032	male	Rattus dominator	4950 ft.	" 12	"
ASE 3033	male	Rattus penitus	5100 ft.	" 12	"
ASE 3035	male	Rattus dominator	5150 ft.	" 13	"
ASE 3036	male	" "	5040 ft.	" 13	"
ASE 3037	female	Prosciurillus abtrusus	5050 ft.	" 13	"
ASE 3038	female	Thoopterus	5000 ft.	" 13	"
ASE 3039	male	"	"	" 13	"
ASE 3040	male	"	"	" 13	"
ASE 3042	female	"	"	" 14	"
ASE 3043	"	"	"	" 14	"
ASE 3044	"	"	"	" 14	"
ASE 3046	male	Prosciurillus murinus	4900 ft.	" 14	"
ASE 3047	female	Rattus penitus	5040 ft.	" 14	"
ASE 3051	male	Rattus muschenbroekii	5100 ft.	" 15	"
ASE 3052	male	Prosciurillus abtrusus	5050 ft.	" 15	"