

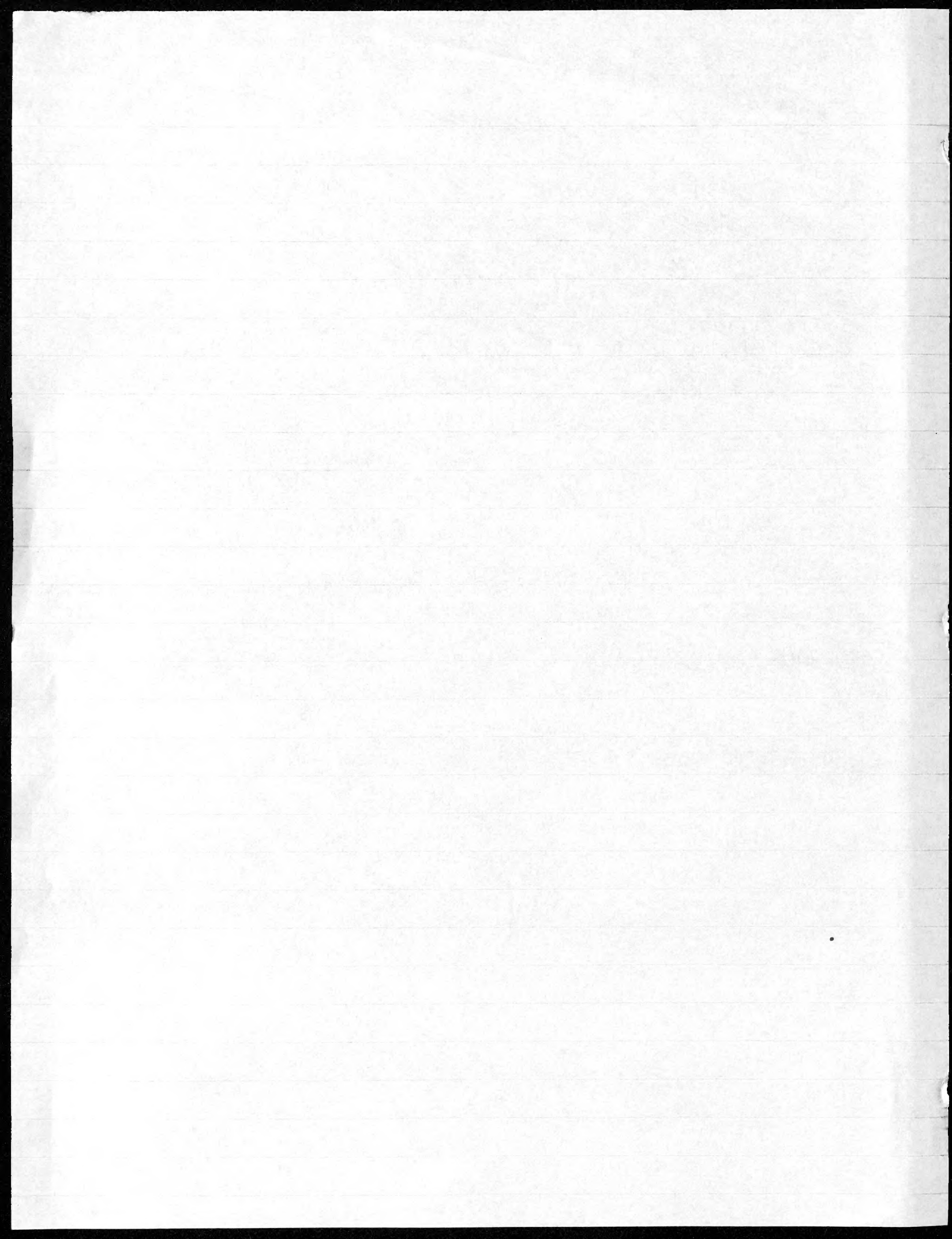
Archbold's Files
34-13 EXPEDITION
FOLDER 7111-01
Journals: McPherson, 1911-1912

MAMMAL DEPT.

Arch. New Guinea Exped:

Re: Hand written daily log pertaining to
activity at various camp sites in New
Guinea, by W. B. Richardson

Dates: April 1938 - April 1939



Wm B. Richardson
1938

General Account

Apr. 23

Hollandia, New Guinea.

Our boat, the SS van Emboff, arrived and anchored in the harbor of Hollandia at 8:00 in the evening. We were late in discharging the cargo because of a heavy rain, and a confusion in checking the cases. It was not until after 2:00 that we were settled with our personal baggage in the hospital. The doctor, a Malay, was very helpful in arranging our accommodations and helping us get settled. There were 28 Pysuan Coolies which assisted us in clearing our baggage from the dock to the hospital about a $\frac{1}{2}$ mile up town (inland from beach). Four of our Malacca Coolies slept on the dock to guard our cargo. The other eight slept at the hospital in a room adjoining ours. The personnel of the Indian American Expedition at Hollandia is —

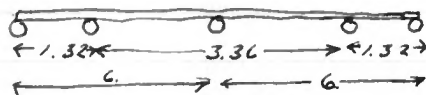
- | | | |
|------------------|-----------------------------------|--|
| L. J. Brass | — | Botanist |
| H. V. Michels | — | Stow man, Interpreter, etc. |
| H. J. Ramm | — | Radio Operator |
| W. B. Richardson | — | Mammalogist |
| 11 | Malaccan Coolies. | two of which are cooks helpers. |
| | See list for name and their pay. | |
| 1 | Malay cook from Soerbeija "Ariet" | pay 40 guilden
total as a maximum
of 60.00 |

Apr. 24

Hollandia, New Guinea.

The morning after a make-shift breakfast we began moving into what is to be our home for the next month or more. It is situated within 50 feet of the beach and 30 ft from the little river that flows through the south edge of the village. Here we have a 5 room house built in a native fashion with cement floor, sago stem walls, and thatched roof. Next door to the west we have a godown in which we are storing our supplies. It also acts as a house for the Coolies. Due to an error we received the wrong type of lumber for the ramps. This has necessitated placing an order with Mr. Cheli who owns a saw mill beyond Sentina Lake. (10 km by river to Pim; 10 km by foot path to Koyaki; 15 km by river to Ipar, Sentina Lake; 15 km by foot path to Dojo Base; Total 45 km).

The plans for the ramps are
 $4\text{ M} \times 6\text{ M} \times 10\text{ CM}$



Size and number as follows —
 3.36 M. $\frac{3}{10}$ of total
 4.00 " $\frac{2}{10}$ " "
 3.00 " $\frac{5}{10}$ " "

Cost —

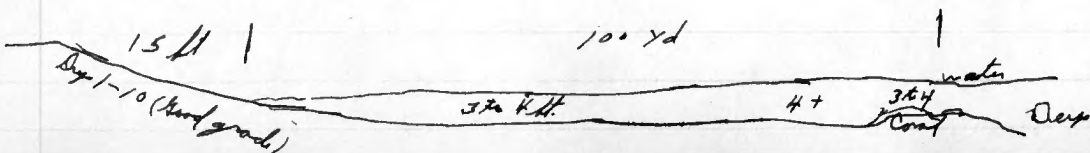
£35.00 per cubic meter
 £30.00 transportation to Hollandia
 £65. Total

More information about our living quarters and the godown. They are rented for a month or more from Mr. Brinkman (Sp?) who is a German planter 5 km above Pim. He is a long lanky bald headed man with a pleasant smile. It is a pity he does not speak English or we German. The "Gesellschaft" (Sp?), the government representative in this country is in bed with the fever. Our work today has been making the house livable and to bring stores to our hired godown.

Apr. 25

Hollandia New Guinea

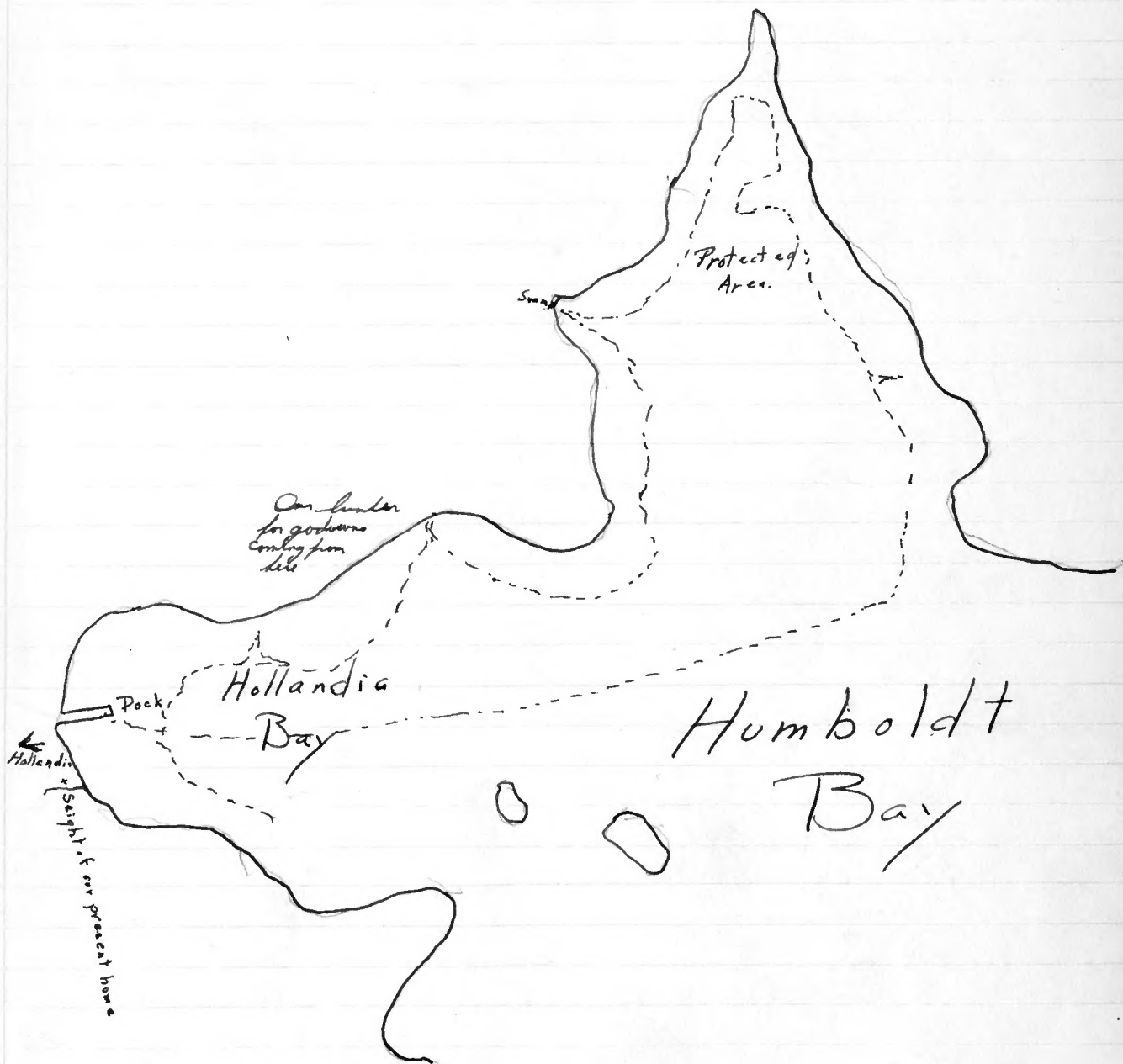
Today's work has been the selecting of the ramp sight and approach for the airplane, as well as the continuation of working about the kitchen and godown. The government resident, Mr. Fogellard (Sp?) has given us permission to put our ramps, godowns, etc. where we like. There is only one suitable place near the town of Hollandia for the ramps, $\pm 60\text{ ft}$ south of the pier. There are many difficulties to bringing a plane up at this spot. The depth at high tide was about 4 ft and in that the plane draws 4 ft of water there is little room for clearance. The shore is somewhat like this.



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General Account



The above is the route that Beas and I took this afternoon in the great motor launch kindly lent by Mr. Highland. During our search for a suitable airplane base we traveled along the entire coast line of the northern portion of Humboldt and Hollandia bays. There was no sight which was as good or better than the one seen in Hollandia. There was shallow coral reef, high hills with abrupt faces, or swamps which spoiled each sheltered spot or probable base sight.

Knoll Ramm and I made a short survey of the region south of the pier for the ramp. This afternoon Ramm continued the survey. The outcome is that there is a possibility that the plan may prove satisfactory. At best the airplanes will be unable to come in only at high tide. The ramp will probably have to be made longer than the 150 ft that we had planned. In addition the coral reef must be blasted an area 10 x 30 ft. It may prove necessary to dredge a portion of the area to get it down to the needed depth.

The captain of the government steamer, who has been stationed here for 2 months +, told me that the only protected spot for an airplane anchorage was in the north easterly baylet of Humboldt Bay. (See map on previous page.) He advised this as an anchorage spot for the plane. This time since he has been here his govt. boat has been washed up near the coral reefs by the strong north east winds.

One wanderer and 27 Pigeon Coolies reported this morning for work. They spent the day cutting jungle wood for the godowns, etc. I would judge that we had nearly enough lumber for one of the godowns. It amazed me to see the quantity they had piled on the beach. They is a bit of a dispute as to the way they should receive for their work. The govt. (Gesagheber) said 30¢ per day, the coolies say not enough "no work". The matter will be decided tomorrow. We sent them off happy with a portion of tobacco.

The Makoran coolies spent the day doing odd jobs about the house and godown such as sorting cargo, washing clothes, building tables, and many other odd jobs.

Things are beginning to run quite smooth about the house. The meals are excellent, well prepared

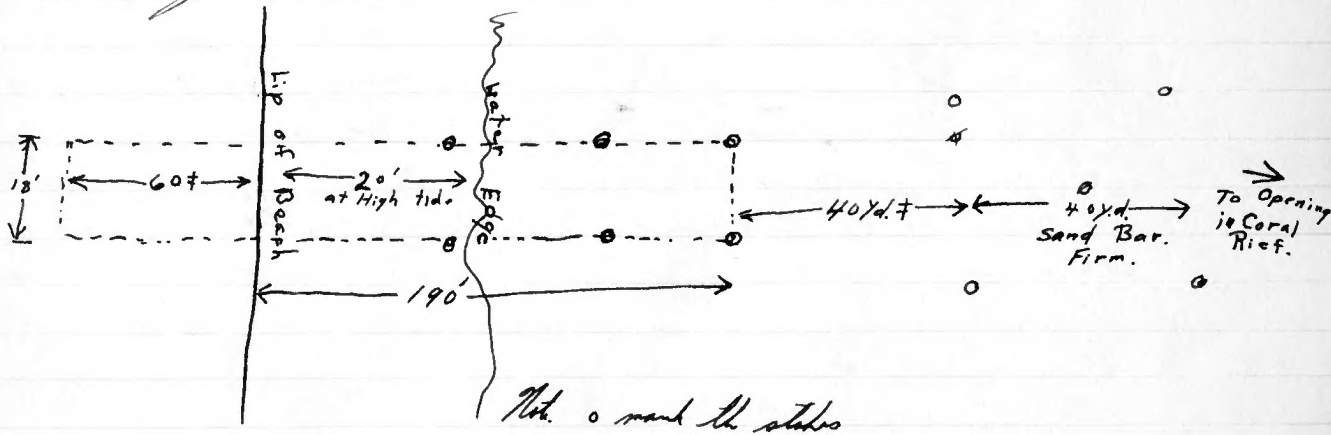
General Account

and nursing. All of the coolies chime in down quietly and smoothly; and they show a fair amount of initiative. They seem happy for tonight they are singing songs to the accompaniment of a guitar. Some of the songs are English or American the words of which sound queer on coming from their lips.

Apr 26th

Halbordia, New Guinea

This morning there was a light rain which delayed our work. Spent that time in the godown straightening up the stores. After the rain Hann, Bruce and I made a rather thorough survey of the ramp sight. Stakes were put in outlining the best channel for the approach.



Measurements which I made this afternoon of the dykes are as follows:

- Datum Post 3'3" (within 4" of high tide) Time 4:35 P.M.
- End of Ramp 4'3"
- 15yd from end of ramp 4'6"
- Stakes at east side of bar 3'10"
- Stakes at west side of bar 4'0"
- Highest spot on bar 3'1"

The above results closely check with those made this morning and computed for the higher tide.

Tidal increase 4'9" between morning and afternoon surveys.

We have extended ^(on paper) the length of the ramp

62 feet beyond the 150 ft. originally needed. This will necessitate ordering the remaining lumber from Mokawa or Sverlogg's to be delivered next boat.

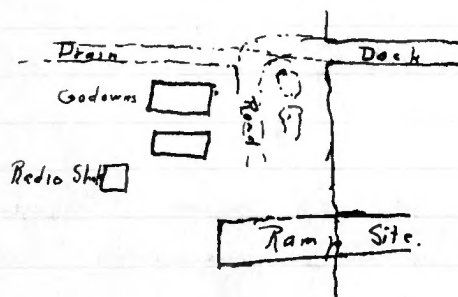
We have had Papuan Coolies trouble. After the rain this morning a few men straggled in asking for higher wages than the 30 cents per day we had offered. This was recommended by Mr. Boghland, the govt. official. This difficulty is due apparently to one or two trouble makers within the group. There were a few coolies bragging about apparently wanting work but they came late so we told them to return tomorrow morning. The mandor for the papuans was hired today, he is to be paid 30 guilders per month plus 40¢ per day for food.

When Mr. Boghland was informed as to the difficulty we were having he immediately wrote a letter to his office at Sentema Lab asking for the required number (40) of Coolies. He is confident that we will be able to get them from there.

The Mokawan Coolies spent their time in building a kitchen, washing clothes, putting bundles in the hammocks, adzes, specks, etc.

Apr. 27 Hollandia, New Guinea.

This morning we staked out the right of the godowns. They are to be built on cement flooring of on a abandoned building right to the north west of the ramp. It is the only available dry spot



which is situated near the Dock, Ramp, and Road. The selected right is conveniently located and on dry ground.

This is a small dry spot to the south west (50ft) of the godowns that Roman has selected for the radio shack. It has full view of the bay and is

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situated close to arial trees.

Just back of the godown is another fairly dry elevated spot which may be used for the white living quarters. Brass is going to negotiate the renting of or buying of two sheet iron houses facing the water and within 100 yds of the ramp. If the deal goes through it will not necessitate our building living quarters.

There were 25 Coolies from Hollandia and neighborhood which ~~arrived~~ turned up this morning for work. They cut more lumber for the godowns. This lumber is supposed to be straight grained, jungle wood of a durable nature.

This afternoon at 3:00 o'clock there were 36 Coolies from Sentania Lake wanting to work. After some dispute over wages it was settled upon that they work for 30¢ per day with rice or sago and tobacco furnished. They are to begin work tomorrow at 5 o'clock with 3 o'clock. They apparently prefer to work their 8 hrs out without a break.

The tide was checked again today. A chart was furnished by the ship's captain of the govt. vessel which listed the tide for each hour of today. The high low tide was at 4:30. We put in a permanent gauge and recorded the tide at the $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{3}{4}$ hour of 4. The maximum tide at the end of the ramp was 4'7" and at the highest point of the bar 3'4".

Apr. 28

Hollandia, New Guinea

This morning the godown sight was re-established and the hole for the upright dug, the remainder of the gasoline was brought under cover, beginning of a privy and other odd and ends of jobs done. This afternoon the Mercurian Coolies piled back off the gun logs.

The first of our labor problems are

over. This morning they reported for work
36 Coolies from Hallandia with one mardener and
37 Coolies from Sentaradok two of their mardeners
acting as their mardeners. They apparently worked
well judging from the amount of logs they
brought in. This evening we hired another
mardener to take official charge of the
Sentara Coolies. His pay is the same as the
other mardener, 30 guilden per month and 40¢ per
day for food. At present we are feeding
the Sentara coolies $1\frac{1}{2}$ lb. of rice per day. We
hope that within a few days sago will be
available which is a cheaper food in this region.

Apr 29

Hollandia, New Guinea

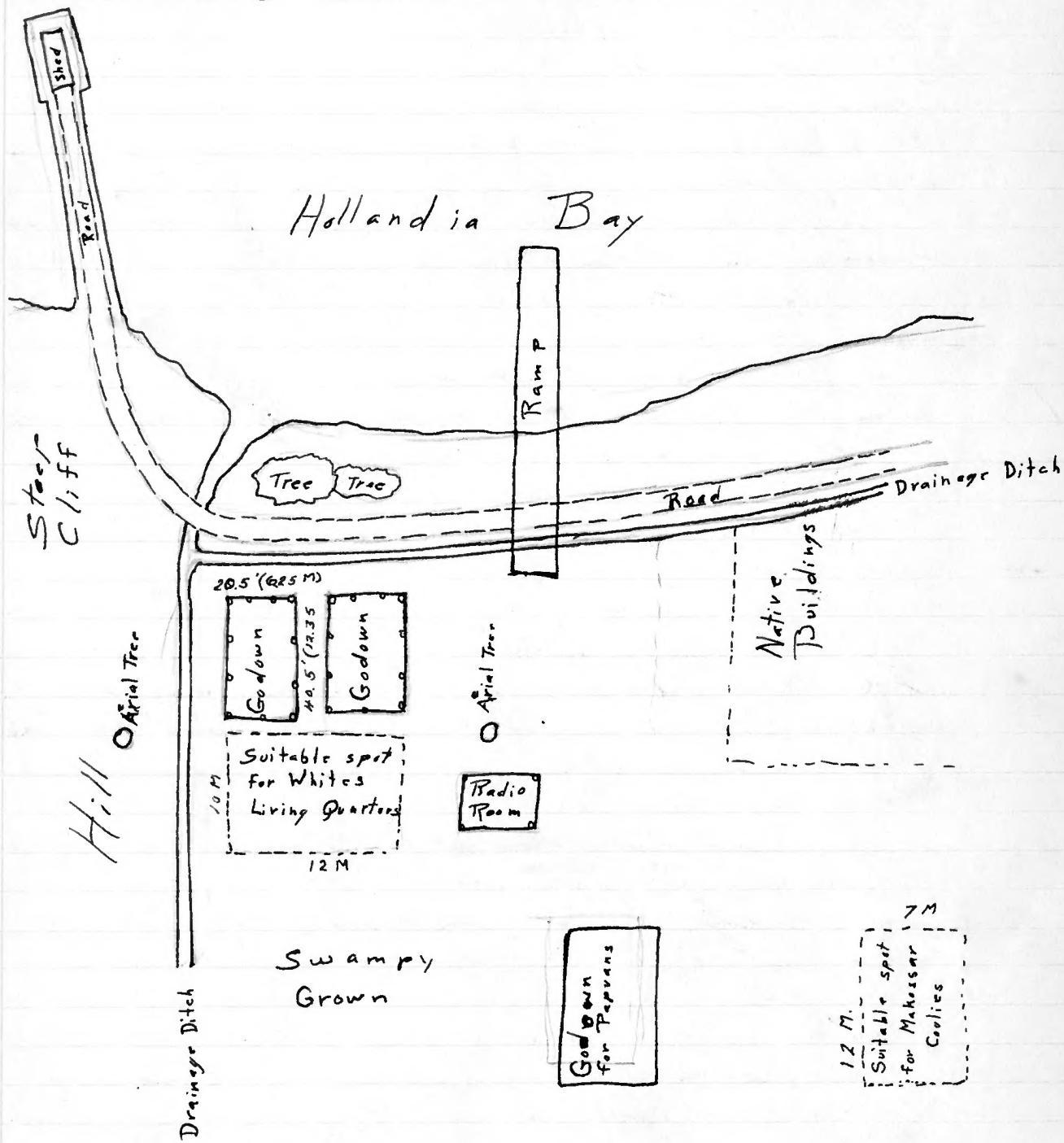
Last evening the captain of the Bantem, a
govt. vessel in Hollandia Bay, turned on his
two 1000 watt lamps to demonstrate their
ability capacity. He too kindly offered to
assist us in eliminating the ramp site
for the night landing of the airplane.

Today's work. Cut off tips of beams in
preparation for ramps. Cut weights for the
two godowns. Built oven and W.C. Started ataxing
the Papanas godown.

There were ~~87~~⁸⁷ Coolies and 2 Mardeners
reported for work today. 38 from Sentara
and 48 from Hallandia. 10 worked on the
Papanas Godown and 15 moving about cutting and
peeling lumber. The remainder of the coolies
cut jungle wood for the ramps. They
cut six poles in all of the following lengths
7.75 M, 7.00 M, 10.00 M, 10.00 M, 14.00 M, and
15 M. a total of 63.75 Meters of lumber
suitable for the ramp stringers.

This evening they were 5 foot loads
of gips brought in. I believe this completes
the 3000 sticks ordered. It is to be used
as the walls of the Papua house and the
roof of the white men's living quarters.

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The above is a diagram of the lower (east) portion of town Hollandia which the ramp and buildings are to be constructed for the

Apr. 30 Hollandia, New Guinea.

Today's work - Construction or rather moving of a narrow gauge railway for transporting small rock for a hill. Cutting and fitting of godown logs. Debarking logs.

There were more stringers for the ramp brought in today (Sentani) 16.4 M, 9.5, 9.6, 11.8; Hollandia 12.0 M, 12.0, 18, and one too small for use. Total 80.5 Meters.

There were 96 coolies that reported for work today 37 Sentani and 51 Hollandia. Twenty three (23) of the Hollandia coolies helped us about the godown moving material etc. The rest of the coolies cut jungle logs for the ramp.

May 1 Hollandia, New Guinea.

Today being Sunday there was no work done. The Coolies of Sentani and Hollandia are so missionized that they refuse to work on Sunday. It is rather inconvenient for us in that we would like to crowd our work along.

We were invited to the home of Mr. Bogland for dinner or rather lunch. It consisted of a large "rice tuffel" the national dish of the Dutch East Indies.

May 2 Hollandia, New Guinea.

The work today has been a continuation of building of the goddown; completion of the narrow gauge railway; filling of the swamp about where the tail of the airplanes is to come, and a continuation of the work collecting jirged timber.

There were 112 coolies reported for work today; 56 from Sentani and 56 from Hollandia. Each day there are more reporting for work. We will soon start welding out the godd from the back.

There were four more ramp logs into day about 10 meters in length. The loggers also brought in a quantity of small stels which will be used for battens on the goddown and houses.

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Another ship load of ataps arrived today. We have not counted the quantity as yet but I believe this must be the last of the 3000 sheets of ataps ordered. This will be used as well as roofing for the houses, wharf and coals.

May 3 Hollandia, New Guinea

Today we continued working on the godowns. One of them is completely framed and the zinc plates are going on; the other has the uprights and end plates in. There was a crew of Papuans who continued to move filling material to the end of the ramp. Another small crew with a Makoran Cookie in charge is laying railway out to the end of the dock. This rail will be very useful in transporting the cargo from the end of the dock to the godowns. There were ^{as many} two groups of natives each with a "mandoes" cutting timber for building. One of them concentrated on large logs for ramp stringers the other on building timber (jungle wood). According to the Hollandia mandoes he brought in 5 logs for the ramp but was unable to beach them because of the very low tide. They are to be brought in tomorrow morning.

This evening the "gesaghlaba" Mr. Foghlood came down to view our work. He seems to be much interested in what we are doing and has in an official way helped us a great deal. It is a comfortable feeling to have the government on our side, that is working with us rather than against us.

Today's labor line was the same as that of the previous day 112 Papuans $\frac{1}{2}$ of which came from Sentani the other half from the vicinity of Hollandia.

May 4 Hollandia, New Guinea

The godowns are gradually nearing completion. They should be finished within a week time. Today's lumber crews brought in more building material for radio shack and living quarters and more

lumber (jungle) for the ramp. There is a total of about 261 meters of ramp stuygers, two thirds of the total amount needed.

There is a similar number of coolies today as the past two days. This is slightly less than previously calculated. The previous two days' coolie figures being in error. There is a total of 112, 51 Sentanians and 61 from Hollandia. We intend to decrease the labor line this coming Saturday, pay day. The wages of the coolies is 30 cents a day (8 hours work), 5 cents of the Sentanians pay is taken from their wages for "mached" (food). At present we are feeding them ^{each} a pound and a half of rice per day. We have put in an order for sago, their native food which is cheaper as it is supplied locally. The two mandorera Marcus and Cornelius receive for their labors 30 guilders per month with an allowance of 40 ¢ per day for food. We have in addition to the ~~Sentanians~~ 12 Malays, 1, the head cook Asit, from Surabaya, and 11, including 2 assistant cooks and 9 coolies from Makassar. The head cook salary is 40 guilders per month with a possible increase to 60 guilders. The second and third cooks receive 30 and 25 guilders per month respectively. The nine coolies from Makassar receive each 20 guilders per month. We of course furnish all of the Malays with food and lodging.

May 5 Hollandia, New Guinea.

Today's work was a continuation of yesterday's program. One of the godowns is nearly complete and the other following closely behind. The two lumber crews returned from the jungle this afternoon with 6 stumps for the ramp, three of which are inferior or useless; and more jungle wood for building purposes.

There was the same number of coolies working today as yesterday (112 total). Twenty ¢ are helping

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with godown construction and filling and grading about the building site.

A radio group from Rand today "Dyoko from boat". This is a month later than we had anticipated. It is to our advantage in many ways for we will not have to worry about housing quarters for them for a while.

Today Mr. Schneider called in answer to a note Mr. Brass wrote to him yesterday. He has consented to rent us his mission house for 15 guilders a month. This is to be remodeled into living quarters for six or more white men. This house will require considerable renovating and remodeling to make it habitable.

May 6 Hollandia, New Guinea

Today has been a continuation of the previous days work. The two godowns are rapidly approaching completion; the first one is complete except for the door; the second is framed and half the sheet iron walls are up. Brass has been in charge of a renovation of the house we are renting from Mr. Schneider. A clearing out of the refuse and a bath in hot water and creosote is well under way. Brass has found it necessary to replace some of the joints and floor plates as well as the floor. Milche began cutting the timber for the radio shack. This radio shack, unlike the godowns, will be built of wood with a tarp rather than sheet iron.

This evening we had a visit from Mr. Poykood, and the police officer and Mr. Kola the doctor. The former two being the only white men in Hollandia, the latter is a Malay.

May 7 Hollandia, New Guinea

Nothing unusual happened today, the work progressing as we might expect. The godown are nearing

completion with a few more zinc plates to cut and fit and the doors and windows to make, as well as some shelving and benches which will be left to a rainy day. Brass is busy with the reorganizing of Mr. Schneider's house. New joints and sporing are replacing those destroyed by the termites. The lumber crews returned with their usual supply of ramps and building timber.

Today being Saturday the coolies (Santonia and Hallordias) were paid up for their pay. They had worked 11 or less days with a maximum pay of 3.30 guilden. They all received their wages cheerfully and with little squabble as to wages or time worked. After receiving their pay they flocked to the Chinese stores and spent at least part of their salary for such nice needs as met their fancy. One fellow opened his pocket showing me a few dollars but his companions that he had purchased and was taking back to his company. Other things that were purchased such as white cork caps, small looking glasses, oil cloth belts, soap, bright cloth for sewing, etc.

The evening Brass is paying the April wage of the Makassar coolies and Java's Cook.

The total pay off today - 375.98 guilden.
Hallordias - 158.80 . Santonias - 110.75 . Hallordias mardor (Marcus) - 9.90 . Five Makassar coolies @ 5.00 - 45.00 .
Three cooks 29.78 , 10.00 , 5.75 respectively.

May 8 Hollandia, New Guinea

It is Sunday in Hollandia and all workers spend the day in rest or religion or both. There are both protestant and mohammedan religion in the small village, the latter being attended by the Malay, and the former by Chinese and Papuans. From our house we can hear the sermons and the music. I did not understand the sermons, being given apparently in Malay. What proves that the music was not recognizable although

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quite melodic with the bamboo flutes and voice.
This afternoon I hiked for about 7 kilometers along the trail leading from Hollandia to Sentani. It is beautiful country. At first the trail leads through the heavy jungle growing along the limestone ridge to the south. Then the trail drops in elevation along the edge of large sago swamps. Here in the sago swamps I met two groups of Papuans from Sentani. They were hunting and fishing along the creek. There was a total of 5 fish (2 lb) which was probably the result of their days labor. There were 3 different types of fish. Two were some what like our bass. They were large dark blotches on their sides and they had a big head for the body. The other type was like an catfish except it did not have the spines on the whiskers. One of the papuans, a young boy, ~~was~~ had a red complexion and a red curly hair. It was not the sun burnt red but rather a rusty red, which covered him from head to foot. At first I thought that he had been painted but on closer examination it appeared to be his natural complexion. I purchased two bows and 4 arrows from these people for 1 guilder.

May 9 Hollandia, New Guinea.

Today our work progressed seemingly slowly. Work was continued on the godowns and on the reconstruction of the white living quarters.

There were a total of 192 Papuan reported for work 51 ~~at~~ Sentani and 61 Locals. About 20 of the locals helped about the godowns and the remainder cut jungle timber. One group concentrated on white timber and the other on rump timber. The latter is apparently quite difficult to get but not as difficult as the white slater logs. There we need for the building of a raft on which

we will bring ashore the heavier pieces on the boat the 21st of the month.

May 10 Hollandia, New Guinea.

There is still a bit of work to ~~do~~ do about the godowns, cement the floor of one, galvanized floor of another, build and fit the doors, build shelves, etc. Briggs and Melake are busy at the new residences. The former is putting in joints and beams, the latter building a kitchen.

Some number of coolies reported for work today (112) 61 Locals, and 51 Sentanians. The jungle crews worked at ranga timber and timber for the float. Up to date there is a total of about 425 meters of ranga timber. There is 40 meters more than our ramp is planned needs. Tomorrow will be the last day of ranga timber. The excess is in case there are some timbers which prove unworkable.

Today a letter from Mr. Ebeli saying he was out of gasoline for his Ford engine that runs the saw mill. Tomorrow we send him some local gasoline as well as 3 drums of our aviation gas.

Mr. Kesse, a German settler, called today bringing fruits, vegetables, and fowl for our consumption (Fr. 50). Included 2 large bunches of bananas (.50), vegetables of 3 varieties, 4 chickens, ^{and} eggs. He has offered to send us fresh fruits and vegetables twice or three times a week. Fresh food is always welcome at our camp although up to date we have for the most part used only fresh food stuffs.

May 11 Hollandia, New Guinea.

The work goes on. A door is being made for the godown, cementing a floor, rebuilding at the new residences, remodeling new residence, and building the radio shack. We have accomplished a great deal since our arrival.

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but there is still a great deal more work to do. It will I hope be done ahead of schedule.

The jungle crew finished the ramp stringers a total of 480 meters some 80 more than we actually need. There is also a good supply of white wood in saw; about $\frac{1}{2}$ of what we will need for the construction of the raft.

The same crew of 112 reported for work today (112 total).

Brass found what appears to be a portion of the lower jaw of some mammal beneath the mission house. (Our new residence). I am uncertain as to its classification. It will be returned to the museum for identity.

May 12 Hollandia New Guinea

Today we completed the cementing of the second godown the other one had a good cement floor which was pegged to a previous building on that side. The kitchen and living quarters of our new residence are approaching completion and the spigot on in for the radio speak.

The same number of coolies reported for work. The jungle crew concentrated on white wood for the float. One more day should complete finish their work with white wood.

Late this morning two spy airplanes settled in Hollandia Bay. They were an old (4 or 7 years) model, Fokkers with 2 motors and wing spread of about 75 feet. They certainly impressed the people of our fair city. According to the radio operator who lived with us tonight they are patrolling the coasts of New Guinea, "Guinea, etc." looking for Chinese submarines or rather "Japanese fishermen" who are inside the 3 mile limit without the necessary permits. The Dutch are worried about spies of the Japanese variety. The best catch of these plains was seen in one month.

May 13 Hollandia New Guinea

The work goes on. The door for godown II is done

and I have started cutting wood for the shelves. Harold began a shed for the Polar electric current. Brass worked on snow at the rotten break in the house while Mitchell jumped about between kitchen, radio shack, and edge camp.

The jungle crews have brought in enough white wood for the raft, as well as some small wood for use on the atapo buildings.

The food for the 51 Sertani has up to date, been $1\frac{1}{2}$ lb. per man per day. Yesterday and today we received sago, this natural food and as we have changed their diet back to their normal one. The sago comes in a basket 40-50 lb. each and is delivered at .55 cents per lb. 5 cents is for transportation. Up to date we have received 14 baskets, 3 yesterday, 11 today. It looks like the sago is like a thick brown flower paste, and when cooked it a brownish translucent mass of jelly-like mass. There has been some dispute as to the quantity to feed. The doctor says 1 basket for 40 men per day while the geologist like Mr. Hookland says that 1 basket for 50 men is enough. Mr. Brass, however, thinks that more should be fed and suggests that the Papuans be given all they want but none be wasted.

May 14 Hollandia, New Guinea.

The work goes on slowly each day a bit more accomplished and gradually our tasks are completed. I worked on the shelves in godown II today, Ken on the generator shack, Brass on the white washes and Mitchell on the Radio Shack and kitchen.

W. reduced the number of coolies this evening by 22. W. selected the best of the 61 Locals leaving 39 and the Sertani 51. This coming Monday we will weed out the Sertani coolies. There was a round of tobacco this evening and a party of the diacards F1.80 guilders.

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The new baskets of Sago arrived today. I am hoping that this will be enough with what we have and what may come in to keep the Sentani in good during their stay. It is cheap food and the people are accustomed to it.

May 15 Hollandia, New Guinea

Sunday and a day of rest and lessons for our times are now to do as we please. At 6.30 this morning I left Hollandia in a rented prow (50) and started toward Sentani Lake. The route traveled was along the western coast line of Humboldt Bay past Tobate to Pim. At Pim we left the prow and traveled by foot path for about 9 kilometers to the edge of Sentani Lake and then by prow again to Mr. Schneider's home on the south eastern edge of the lake. Had lunch with the Schneider family, his wife and small daughter, and then returned by prow to the eastern edge of the lake and by foot path to the shore of the bay (9 km). We started back by prow but found that the bay was too rough and so this of us were left ashore and returned by foot path from a point near Tobate to Hollandia, a distance of about 13 km. During the day I visited the home of two Europeans (Germans). Mr. Schneider the missionary and Mr. Brinkman a planter 2 km from Pim.

May 16 Hollandia, New Guinea

Today our work progressed rapidly and well; the floor on the radio shack, steps going on the European residence, shelving in godown II, began laying beams for the ramp, and the float is well under way. The crews that have in the past been in the jungle collecting wood for building were today kept in Hollandia to help about our work. The increased number of men has made and the work they accomplished

made it appear as though more than usual had been accomplished.

Unknown to me Mr. Brass ordered an additional 3000 sheets of a tarp. This has been duly ordered and delivered through govt. channels.

Today we again reduced our labor line by weeding out the poorer workers of the Sentani group. We find 19 men and 1 quit making a total of 20 Sentanians less than we had before. At present our crew of Papuans is 37 locals and 32 Sentani. The group as a whole is good the individuals are not speedy but they do a good days work when you consider the wage of .36¢ per day without food or .25¢ if they are board.

We hired a very local carpenter today who is at present making a table for our new residents. His pay is 1.00 guilder per day and he feeds himself.

May 17 Hollandia, New Guinea

Our godown is complete shelves, floor, doors and all. Today I started shelving in Mildies godown and should have it completed by Friday. The rafters are going on the radio shack. Logs are sorted and being put in place for the ramp. European house is being white washed; bath room is going up and the raft is about $\frac{1}{2}$ completed.

A heavy rain this morning delayed our work this morning but in spite of it we apparently accomplished a good deal.

A telegram to the government here today says that there are 7 large cases arriving on next boat 2 of which weigh 1000 kibs. Our raft when completed should be able to bring these ashore.

May 18 Hollandia, New Guinea

Today's work progressed much as usual and providing nothing happens of an unexpected variety we should be ready for the cargo when it comes on Saturday. The living quarters, the radio shack and the godowns are all

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nearing completion.

This is the same crew of coolies working as in the two previous days a total of 69. The carpenter we hired three days ago worked one day and quit. He was in the habit of napping a dining room table when he decided that he would like to have a month's contract. What he needs is the "sack" with plenty of "bell".

May 19 Hollandia, New Guinea.

Our work goes on - tomorrow should be the completion of the godowns, radio shack, European house, kitchen, wash room, and W.C. as well as the raft.

Today Mr. Cheli came in. He reports that he has cut 450 pieces of our lumber, 45 of which is at Pim and 200 more on the road to Pim. There is some 50 more pieces to cut. Apparently transportation is holding him up. This difficulty is due to the fact that the customary wage for him to pay natives is .10¢ per day, and we have been paying .25 and 30¢. The Europeans are holding out for higher wages.

This evening the guest table is ~~of~~ coming for dinner. We are entertaining the government.

May 20 Hollandia, New Guinea.

Today we finished the godowns, the radio shack, and our own living quarters. The one big job ahead of us is the construction of the airplane ramp. This ramp is started but there is still a great deal of work to be on it yet.

Last evening we advanced Mr. Cheli \$130.00 for the payment of the coolies for the transportation of his lumber to Hollandia. Today 33 pieces of our ramp planking arrived and we again hope that it will all be in within a few weeks.

Tomorrow the monthly boat is due to arrive with our cargo from New York as well as additional supplies from Coerlaya. D. Reed is also aboard and possibly another cook for the inland party.

May 21 Hollandia, New Guinea.

Today there was little work accomplished because of the completion of most of our tasks and the continual expectation of the ship with our cargo. The boat has not arrived as yet and it is now 7:30 in the evening. It was difficult to get things accomplished ~~at~~ even the small jobs for the population of our little village has doubled or trebled due to the boat's expected arrival. There was too many spectators to distract our boys. At present we are waiting for the boat and we will probably have a hard night's work ahead of us.

This evening I purchased a Phalanger from a native (see species account) and spent the evening preparing the skin. It is my first New Guinea mammal.

May 22 Hollandia, New Guinea.

Sunday and our day of rest was spent in one of anticipation for the K.P. 17 ship due yesterday morning has not arrived as yet. We have all become impatient but there is nothing we can do but wait.

Mr. Hoogland, the Bezaghebber, is I imagine the most impatient for his wife to whom he was married a month ago by proxy is due to arrive. He had planned an elaborate reception for his wife's coming. The streets have been cleared, a large arch with a "welcome Hollandia" erected, two native orators, a dove ceremony, and an elaborately decorated church all for the bride. Yesterday he sent about an invitation to the reception and various functions

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of the day. Today I sent about a net of cancellation of planned program. Below is the invitation.

Today Mr. Brass caught in a man trap placed by our Mekassa Cooks in the godown for Pipers. The result was a severe blow on the head by an iron bar.

Willem one of the local cooks came to me and asked for the use of one of the godowns as a sleeping quarters for his and his friends families. It was granted and a little later he returned and asked for a lock and key saying that he wanted to lock the women and children in while the men were going about. Not very trusting of this fellow Pipers.

May 23. Hollandia, New Guinea.

This morning we began our work as usual regardless of the late coming of the monthly boat. By noon 12:30 the boat appeared after a delay of 2 days and 3 hours. Our work changed to one of shifting and checking cargo rather than the building program of the past days. It was not until 2:00 o'clock the next morning that we finished checking

the shipment
Lieutenant Schrauder who is to be in command of the military base station, to be constructed here arrived. We knew that he was to be a member of the expedition, but we did not know when he would arrive; though it would be the following boat. With him are several (10 or 12) soldiers who are to assist in the construction of buildings. He has also a large supply of cargo, equipment and provisions for the 60 soldiers, prisoners, and Dyaks, which are scheduled to arrive next boat.

Dr. Reed also arrived. He, the assistant leader of our expedition, has been for some months (4 or 5) in Java arranging for and getting permits for our work in the Dutch East Indies.

May 24 Hollandia New Guinea.

Today has been one of shifting and arranging cargo within our two godowns. It takes time and patience to arrange things in a systematic order.

Today we paid the boys (coolies) again. Six quit and one fired (2 locals and 4 Sentanis) leaving a crew of 60 Papsuans, 27 Sentanis and 33 locals. I hope that some do not leave in the morning although it would not be serious for we are confident that we will be able to get more local labor if needed.

May 25 Hollandia, New Guinea.

Our work went on much as usual today. This morning I finished arranging material in godown 1st and this afternoon I moved material from Birkman godown to 1st of our own.

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There was no labor trouble, our picked crew all returned for work. One man previously fired tried to slip in under an assumed name and this same being tried to collect money this evening for two days hard work. He it was fired some time ago for being a shiftless lout; the laziest I've seen.

May 26 Hollandia New Guinea

The work goes on. Reed is building the point, Koro on the radio; Brass checking stores and I have started the Makroan Cookhouse. This house is being built directly behind the two godowns on an old plot; apparently the foundation of a previous building. The building is being made 6 x 10 meters. The posts are set 40 cm. in the ground, the floor 60 cm above the ground, wall 2.30 cm. and a ridge 1.50 cm above the wall plate. It is being built of jungle wood and steep with the exception of the floor which is soft wood planking.

Most of the coolies (same number as yesterday) coolies worked about the buildings today. A small crew of 10 or 15 went for timber and returned with 21 logs suitable for joist, plate, and ridge pole.

Sickness in our Popuan crew has been relatively small; the worst of which was a typhoid split to the middle with an abscess. Our Makroans however have been sick a good deal of the time. Of the total of 12 we had (now 14) they averaged 2 to 3 men sick per day. This illness is principally malaria but one of the boys (Moss) has groin swelling that has kept him confined for the past week. Yesterday he was to have had an operation. I did not see him today but assume that

it was successful.

May 27 Hollandia, New Guinea.

I accomplished what appears to be a good deal today. The Messman Cooler house which I am building (1 1/2 days) is now completely framed, the uprights are in, the wall plates and ridge pole in up, and the short planks for the floor support are set. Tomorrow we will begin the rafters and uprights that carry the upright. Hope that it will be completed next week.

This evening we received our first music and news over the Radio. This evening about a school we could without trouble get various amatures in the U.S. They come through clearly and plainly. Harold estimates that it will take about 1 week more to completely set up the radio.

Hard is busy with the grant. Two days now should see it completed or nearly so. Brass and Meike are at work on the ramp. Brass laying the timbers and Meike cutting the joints. The ramp is the big remaining job. It is heavy timber work and later on our work may be limited by the tides.

Mr. Schneider, the lieutenant, is now at work constructing a godown for the military supplies. He is building one large than ours ($7\frac{1}{2} \times 30$ M) which should be useful for his store. He is building along the road just to the south of our Sentani bidge. Here there was a cement foundation or floor which will be of use. This evening saw the spot cleared of rubbish and the corner posts set.

May 28 Hollandia, New Guinea.

Today's work progress rapidly and well.

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Finished the rafters and put a top on one side of the roof. There was a crew of 8 working, 4 tying, 2 fixing a top, and 2 cutting rotak. The top is put on like shingles except every sheet, (100 x 50cm) is tied down by twisting the backing stick to the rafters. Today Harold put a pole in a place tree to the north of the godown. It is some 100 ft above the ground and form a span of about 100 yd to a coconut palm near the radio shack. The long goal is to be used for 600 meter land. Brass worked at the grassy clearing. With the aid of an electric drill he was able to lay about 15' ⁱⁿ of decking. Beiles continued with the cutting and joining of the ramp striggers. Bond supervised the caulking of the bottom of the piers. It is a very slow job. It will take a day and a half or two days to complete the bottom caulking. We looked over our stock of lumber for material for a boat but found nothing that would be suitable.

May 29 Hollandia New Guinea.

Today is Sunday again, a day of peace and quiet for the whites and church for all good Papuans.

This morning Willem called for me at 6:30 and by 7:00 we were on our way to Tobate, his Camp. Along the coast by prow is a beautiful. The first half of the way there is a heavy jungle coming down to a rocky low shore, the latter half being a sandy or swampy beach with coconuts or mangroves. The islands and the irregular coast line as well as the coral reefs beneath add to the picturesque part of the trip. Tobate,

one of the larger villages on the eastern part of the bay is situated in the inner bay a few miles east of Pohn. It consists of 75 or 100 houses built at over the water to either side of a elevated wall made of split coconut palm trunks. I walked along the village wall and into the communal house for men. It was a rather poorly constructed house of rough lumber and thatch. The inner platform consisted of a high platform in which were kept the dance costumes and a few personal belongings. These dance costumes were of a modern type with beads, paper and colored paint mixed in with the native goods. Casuarina seemed to predominate the plumes of the bird dress, while a few had plumes of the bird of paradise. There were no animal skins or horns used in their decorations.

Going from the roof of the main house were such objects as fish skulls, vertebrae, fins, rooster combs, and the like which I supposed had the effect of magic on the inhabitants. Demons were forbidden to enter the house and as far as I could discern none came within 75 ft. of it. Young boys were also forbidden to enter but they however frequently sneaked into the house and remained there until chased away with yells and gestures by the elders of the house. The oldest boy which remained in the house was of an age of about 15 years.

Returned to Hollandia at 11:30 this morning in time to dress and accompany the group to the home of the Geogrup for a rice supper. It was an excellent meal the kind that calls for a siesta afterwards. I slept until 5:30.

This evening we tried out one of the portable radio sets. The transmitter is not working now in the 3rd band or the receiver.

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May 30 Hollandia, New Guinea.

The work today progressed much as usual. Today the planking on the ramps is going on, and tomorrow should see it up to the top of the beam. The ramps stingers are going along slowly. Hope that they will progress more rapidly now that the crew understood their work. Kamm worked at the radio and Rand had one cooke galking the part. I have finished laying the atap on the roof, will start in getting on the floor and the walls. I shall have trouble in handling a large crew (8 or 10) I suppose for each thing they do must be demonstrated by signs. I have learned some Malay but not enough to give an intelligent order.

May 31
~~June 1~~

Hollandia, New Guinea.

The walls of the Mekson house is ready for atap, tomorrow it will go on. Koral is busy with radio, a one man job. Miled is working with the ramps and anal pole. Brass is laying the ramps decking and Rand starting the building of an iggiving house for the Europeans. Paid off or rather paid the Meksoners their monthly salary.

This evening Miler one of the Tobate boys asked for a raise in salary for the local labors. It was refused, and as possibly tomorrow there will be a spontaneous labor strike in our labor house. It is no "buddy" good to ask for a raise in pay.

June 1 Hollandia, New Guinea.

Today I completed the building of the Mekson Cooke house. It has taken less than a week (5 days). There still remains a part of flooring to be put in but this will come later, on delivery of palm stem strips.

The work of the others goes on much as usual with more accomplished each day. I purchased two (2) Phalaropes from the Papuans today. (See species account.)

Paid off or rather paid the monthly salary, 1 guinea per day and 40/- for food. They seemed happy and they should for it is a large salary for this region.

Some dispute as to Senter's regulations. Their cook is doing his cooking within the large room and not using the small joining cook shed. The reason for this being that the drainage is poor there and after a rain it is much like a mire. They will be allowed to continue their work of cooking in the building and we hope that the house does not burn down for it would endanger the radio shack and Mikasson house. The food for the Senteris is at present 3 bags twice a day and as much as they can eat, and rice once a day 6 kilos or 12 lbs for the 25 men.

June 2 Hollandia New Guinea.

Last evening one of the Phalaropes (No 2[#]) escaped and so the need of a proper cage for the remaining animal and others that I hope to receive. With the aid of Uvis my number one coolie the cage was built this morning. With a crate for a frame extended with sticks and a wire screen covering the sides (in part) and the top a large strong cage was constructed. This afternoon I spent supervising the cleaning up of the Mikasson Coolie house. Other work goes on as usual. The rafters and floor are being laid on the European house #2 adjoining the one which we rent from Mr. Schneider. The ramp is progressing rapidly, you may pass the top of the beach with the plank

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and well in the water with the stingers. I estimate that about 100 feet of the 250 ft has been completed. Two weeks should see it completed.

Last evening ~~we~~ Harold went on the air for the first time. The equipment is working well, far better than we had expected. An operator in ~~the~~ ^{the} ~~Caribbean~~ ^{Caribbean} was contacted who informed us that Archbold with the Duba was leaving the U.S. in 35 hours. This information was received from another radio operator in San Diego. I hope more information will come through this evening. A call was sent to Archbold this morning by hand stating that it would be two weeks before we would have the range completed.

June 3 Hollandia, New Guinea.

Began a small building today to house the photographic equipment. It is to be a shed-like building with a peaked roof, one full atop wall and three half walls. Size is approximately 3.50 M X 3.00 M. It is located before the wash house and the new European building being built ~~near~~ adjoining Schneider's building on the north.

The range is improving on rapidly considering that work is limited to low tides. The floor is in the new European house and judging from the rate that it is progressing it will be completed in two days.

Harold has been working at the radio all day today. Last evening it was confirmed by the ~~Caribbean~~ ^{the} ~~Caribbean~~ ^{Caribbean} radio operator that Archbold was leaving in 9 hrs. for New Guinea. I hope that is true.

is at present some where between Hawaii
and California for it will take about
12 hrs to make the flight. Today I could
hardly both Hawaii and San Diego operators
talking with KHAHX the Guba. This
evening we may receive further news. I
shall go and see.

June 4 Hollandia New Guinea.

I accomplished little or nothing for
my cookies were required as part of the
timber crew. There was need of small logs
in the construction of a rock raft to
hold the logs down.

25, followed the last part of the
flight of Guba last night. It arrived
safely in Hawaii about 1:00 the evening.
There is further seedbeds tonight in
which we may learn more about the
storm and its plans.

June 5 Hollandia New Guinea

Sunday and no work. Rand and I took
a walk this morning north east through the
mangrove and sago swamps and into the jungle.
It was a poor forest most of it having been
cut over or where virgin consisting of relatively
small trees. Rand regarded it as several
birds (3) none of which were of particular
interest to him, that is they were not rare or
unusual. The only mammal signs we
saw were tracks of a medium size rat
in the mud flat area of the sago swamps
and pig tracks and rootings throughout the
region. They were however more numerous in
the sago swamps or the cut over grass
land and border forests.

June 6 Hollandia New Guinea.

Today being a religious holiday all

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of our Tapanan labors remained in this
camping. What little work we did was carried
on by our Makassar coolies and the two
mandors. We concentrated on laying the rags
staying finishing 4 more of the sheets. We
will soon be out of timber to lay unless
some is delivered tomorrow.

We talked with Archbold and Rodgers
last evening. They are in Hawaii and
leaving tomorrow 11:00 our time for Wake
Island. From Wake they will fly to
Hollandia arriving here on the morning
of the 10th. I hope they have a safe
successful journey.

June 7 Hollandia, New Guinea.

Today I built a frame for the
verand. Rand started the paint and began the
top planking. Atap is going on the roof of
the new house; and the rags progress
slowly seaward. We are at present
rushing all word for the arrival of
the planes on the morning of the 10th.
We had (2) two success today
a price of 2.50 guilder.

This evening Rand and I took a walk
along the trail to Sentani. Last evening
during Rand's walk along the same trail
he noticed a flight of small insectivorous
bats crossing the trail. We were determined
to trace the flight to the cave or grove
from where they were coming. The cave from
which they were coming is located just
south (16 yds ±) of the Van Sollen residence
at the top of the hill beyond Hollandia.
Rand as he approached the entrance
saw the entrance (2) leaving the rocky
mouth of the cave which had been
or has plugged by natives. On

approaching, the entrance the flight out
ceased with the exception of an occasional
one or two. Their flight through the
jungle was one of the most interesting
things observed. The first lot was seen
about 5:50 before the spy was actually
darkened some 250 yd south of the actual
entrance. The general flight was along
a rather restricted route ^(10-15 ft wide) southward
through the jungle. They were flying
low (5 to 10 ft) through the thicker
foliage of the low jungle, boarding
a small wash. The sound of it led
little or no feeding in flight but
rather a determined flight toward an
assumed feeding ground. I shall make
further observations later.

June 8

Hollandia New Guinea.

This morning was spent in the water with
three dynamo removing coral blocks along the
channel which the airplane is to use coming
into the ramp. Three large blocks (4 x 3) were
broken down and removed and another 3 removed drilled
in preparation for the blast. High tide this afternoon
prevented work on the reef so we resumed the work on
the photographic room, ate, ate, or going on. The
ramp, annex to the house, the project progressed
slowly but surely.

June 9

Hollandia New Guinea.

The rain, which has been practically
continuous throughout the day has slowed our
work down considerably. This morning regardless
of rain I removed several more of the
coral block. The cold water (from stream) and
air cut our work short from I had expected.
The coolies are quite affected by change to colder
conditions. The work on the ramp got just
as well as the annex progressed slowly.

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Purchased (2) two Chalangers today, a mother with one young (see notes on species account).

The Guba is at present on its way to New Guinea, the last leg of its flight. It will arrive here tomorrow morning about seven o'clock, having left Wake Isl. late this afternoon. Hourly or half-hour signals will keep us in contact with the plane.

June 10 Hollandia New Guinea.

The big event today was the arrival of the Guba this morning about 6:00. It came out of the clouds to the east, circled Hollandia Bay and settled in Humboldt Bay beyond "Cyan Pulo". The rest of the day was spent in acclimating the six new arrivals to their new home Hollandia and at the same time trying to accomplish some work. I drilled four holes in the rigger heads in the coral reef channel and set 5 charges of dynamite only one of which went off, the other 4 were duds. The caps seem to be defective or else we are not making the set correctly. The one that did go off made a beautiful job of it almost completely slanting a large rigger head. The fish that were collected after the blast included 13 different kinds. They were not saved. The new members of our expedition which arrived today are -
Richard Willbold
Russell P. Rodgers.
Gerald D. Brown
Raymond E. Booth
Steve Barinka (Sp.?)
Capt. Lon Yarchy (Sp.?)

June 11 Hollandia New Guinea

Work has been rather hit and miss today. This

morning I helped Archibald lay a few⁽²⁾ charges of dynamite in the coral reef and exploded around it this end that the rest of the morning. This afternoon layed splashing on the ramps for several hours and the "juddled" part for the remainder of the day. We are quite unsettled here at present. The six "juddlers" are slowly becoming acclimated to their new environment, and we (Rand, Brass, and I) are attempting to turn the work of the base camp over to them so that we will be able to start our scientific studies shortly. I hope this coming Monday, day after tomorrow.

June 12 Hollandia, New Guinea.

Sunday today. This morning Dick and I went into the cave previously found by the ~~over~~ Rand and myself back of the Van Sauleus house. We were in the cave for 1½ - 2 hours, and traveled over about 50% of the cave. The cave is the result of stream erosion (only during rainy periods) which has cut a rather narrow (average 6 ft wide) channel through the lime stone formation. There are no large rooms and only few stalagmites and stalagmites and these are poor being dirty and brittle. This evening I returned to the entrance of the cave to collect several specimens. One got with the gun into the entrance netted two and shot two more with a stick as they flew out. See species note Xiphioides

June 13 Hollandia, New Guinea.

This morning I skinned the four bats obtained yesterday evening and organized my collecting equipment. This afternoon I set out 100 traps, 60 rat traps and 40 mouse traps. The line begins on the west side of the trail, ^{leading to Sauleus} 300 ft. beyond the summit (Van Sauleus). From the trail it runs west up the mountain slope to the summit of the hill and then down the hill on the north slope to the brink of the lime stone cliff. The line is

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a quarter of a mile in length or more and through a forest which has been selectively logged, that is, logged in part for certain desirable lumber. Just above the limestone cliff was what might be called the only virgin forest in which the traps are set.

June 14 Hollandia, New Guinea

From the 100 traps, 40 mouse traps and 60 rat traps I took this morning 1 Melomys.

One ~~Protonotaria~~ ^{Cerymyra} was killed last evening by our Senterri Coolies northeast of Hollandia $\frac{1}{2}$ kilometer.

Late morning Mr. Buss sent me a note saying that some natives had just obtained a Halicore. I proceeded to the spot and obtained a complete skeleton of the beast.

This afternoon was spent in preparing the specimens. This evening four coolies and myself went hunting north east of Hollandia $\frac{1}{2}$ kilometer in and above the sago swamp.

The only evidence of animals in that vicinity was wild pig. We could hear their disturbed retreat through the brush, and their roosting spots were common.

June 15 Hollandia, New Guinea

From the 100 traps took 1 Melomys this morning.

Spent the rest of the morning preparing specimens. This ~~morning~~ ^{afternoon} was spent in setting 100 more rat traps. These were set $\frac{1}{2}$ kilometer south east of Hollandia proper in the widened stream or rather wash which drains from the north into Hollandia Bay. The vegetation ~~about~~ where the traps were set was a thin second growth forest principally of soft woods. The trees were all small the result of cutting, and flooding the area as well as the changing river courses. Beneath

these scattered trees is usually a grass
matted grass but sometimes there is low
thin bush, or lichen. In one area (small)
there is rather open bamboo which is
for the most part solid few other plants
growing in with it except about the
outer margins.

This evening I revisited the bat
cave (see species notes for Myotis)

June 16 Hollandia, New Guinea.

200 traps - 3 Myotis. These three were
taken in the 100 traps set in the second
growth forest above and to the south west of
Hollandia.

One of the Myotis (not previously mentioned in
notes A) died last evening. It was brought in
by natives from "Lobo" (Sp.?) It had during
its capture received a severe wound in its
fore shoulder.

This afternoon I purchased a young Myotis from
a native for .05¢

This early afternoon I spent hunting
up the canyon and back along the spur
north north east of Hollandia. It is a rugged
region covered with a second growth forest.

This evening I revisited the bat cave
and obtained 12 individuals by knocking
them down with sticks as they flew out
of the entrance.

June 17 Hollandia, Netherlands New Guinea.

200 traps - 1 Myotis, 1 Myotis Echymipera.
(See species accounts)

This afternoon the boys while resetting the traps
found a long-haired bat roosting in one of the traps
which was set in the open second growth forest with
a heavy grassy undergrowth.

Two Myotis were taken the late morning
from their roost in a small hole in a jungle tree.

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The entire day, with a slight interruption this afternoon by the R.P.M. was spent in preparing specimens.

The remaining members of our expedition arrived by this boat. From the information I have collected there are 73 Dyaks, 50+ Soldiers, 30 Soldier carriers (garrison labor) 2 Dutch scientists with their 6 helpers, and 1 radio operator.

Yesterday afternoon the leader of the military party, Cap. Terink, arrived on one of the three Dutch navy planes which patrol the waters of New Guinea.

June 18 Hollandia, Netherlands New Guinea.

200 traps — 1 Melomys.

Checked the traps and prepared specimens this morning. This afternoon most of my time was spent observing the Cuculus and hearing the Douyon whistling. Today is quite uneventful with the exception that this morning an adult ♂ Phalaropus was brought in by a native.

June 19 Hollandia, Netherlands New Guinea.

200 traps — 0

This morning several coolies came in saying that they had taken another Logorhynchus. The dead only was saved for specimen. (See species note Falicon)

This afternoon was spent doing a little bit of nothing, doing odd jobs, things that I had put off for a special moment, and today, Sunday was the day.

The most eventful thing today was a short talk with my sister and brother in law via the radio. It was good to hear their voices again although it was only for a short time. Reports were that all were well and happy in our family circle.

June 20 Hollandia, Netherlands New Guinea.

199 traps - 0

This morning there was a sorting of the Dyaks. I received three as my collecting boys. Their names are "Bonding", "Luwalsae" "Jalengapoe." Our first task was to learn something of the art of collecting. We set out 195 ^{foot} traps along the base of the rock cliffs at the ~~west~~ ^{west} of Van Sauter's, and gradually up the hill slope to the saddle between the third and fourth knolls (small) ^{west} of Van Sauter's. From there we went down the passing gale and about ~~xxx~~ distance, and then on to the west facing slope and up the slope toward the summit. The forest for the most part was quite dense with thick undergrowth and semi-green jungle types. The floor was of a rocky (lime stone) nature and, thick but well covered with leaves and humus.

The afternoon I spent in the field showing the Dyaks something of way to obtain jungle mammals. We spent 4 1/2 hours cutting, burning, ~~and~~ chopping, and looking about logs, stumps, litter, etc. but found nothing. This uneventful search was done in the jungle ~~and~~ north east of Hollandia, 1-4 kilometers.

In the evening the Papuan collectors brought in 14 Hyposidimus.

June 21 Hollandia, Netherlands New Guinea.

394 traps - 0

This morning we were up at 4:00 in preparation for the first of our reconnaissance flights. At 6:00 we left Hollandia flying over Sentani Lake and then in a more or less direct line to New Bivak on the Iking River. From there we went over Down Top to Habema Lake.

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circled about the lake several times and then returned ~~to the~~ to Hollandia via the same route taking in. (See notes taken on reconnaissance flight).

This afternoon a Papuan from Isobadi brought in a prepared Cuculus skin. Spent part of this afternoon showing my 3 Dyak boys how to prepare a flat skin.

This evening one of the Dyaks brought in a live Rattus which he had caught in the grass near our gardens.

June 22 Hollandia, Netherlands New Guinea.

391 traps - 0

This morning I developed pictures and for an hour after lunch. The remaining part of the afternoon was spent in teaching the Dyaks to shoot with a gun, and doing odd jobs about the place. Caught a lizard in one of the traps set in the forest. A large python like snake was brought in by the natives. They had captured it in the jungle south east of Hollandia across Humboldt Bay. Another smaller snake was brought in by one of the Dyaks. A Mahoran cookie trod on it while he was walking along a grassy trail near the lower (mouth) part of Hollandia River.

June 23 Hollandia, Netherlands New Guinea.

391 traps - 0

At noon an adult ♀ Phalanger and its young were brought in by a Papuan.

This evening 5 very young Rattus were brought in by natives from "Cuger Pulu".

This morning we made the second of the reconnaissance flight. We flew to Sentani, Prow Bivak, Hobbins Lake, Willemus top, Hobbins Lake, Great Valley, New Lake, Hobbins Lake, Great Valley, New Lake, Prow Bivak, New Camp site, Sentani Lake, Hollandia. (See notes on reconnaissance)

This afternoon I showed the three

Dyaka methods of preparing flat skins.

June 24

Hollandia, Netherlands New Guinea.

391 traps - 1 Rattus, 1 Melomys

The morning was the 3rd. of the reconnaissance flight. Approximate route traveled: - Hollandia, Sentani Loh, New Camp on Merbans, The Lake, Hablana Loh, circled about Hablana, Great Valley, The Lake, Great Valley, East along course of stream leading away from The Lake, circled about the river, to Merbans River, Sentani Loh, Hollandia.

The afternoon showed the Dyaka the method of preparing study skins.

An adult ♂ Dorcopsis was brought in this afternoon by a Papuan.

A native from Sentani brought in 1 Rattus which he had caught in his camp.

June 25

Hollandia, Netherlands New Guinea.

391 traps - 2 Melomys

This morning two of my Dyak collectors brought in a Logoromys which they had dug out of a hole on their return from their trap line. (see species note) The morning was spent in preparing specimens. The afternoon in searching through the jungle in the vicinity of spot where the Logoromys was caught for another of the same species. We were unsuccessful. The later part of the afternoon was devoted to preparing specimens.

This afternoon the same Papuan came with another Dorcopsis skin and skull which he had recently prepared himself.

This evening one of the Makoran coolies came in with two young Rattus. (see species notes)

June 26

Hollandia, Netherlands New Guinea.

390 traps - 0

This morning (Sunday) Roy and I took a prow trip to Engros and Tabat. We looked

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about the villages, took pictures, bought a few wild-racco, and spread the word about that I desired cucumbers, walshins, rats etc.

This afternoon was spent in preparing specimens and talking over the radio. I made my first contact with mother and father this evening through W.C.G.C.A.

This afternoon a Dorcopsis and an adult ♀ Phalanger and young were brought in by the natives.

Forgot to mention that my Dyak collector caught a Echymipera and I purchased a Rattus for a log in Tabate and a tail of a Dendrolagus in Progro.

June 27 Hollandia, Netherlands New Guinea,
390 traps - 0

This morning was spent in another reconnaissance flight. It is the fourth and probably the last. Our route was Hollandia, Sentani, Camp 2, New Lah, Grand Villy, Habema Loh, back to Grand valley and circling about for a while then, back to Camp 2 over the Idenburg, along the Idenburg, ^{Idenburg ridge} Sentani, Hollandia.

The natives today brought in 4 Dorcopsis, and 1 Rattus.

June 28 Hollandia, Netherlands New Guinea
390 traps - 2 Melomys.

Yesterday evening the three Dyak collectors and I went hunting by flash light along the trail toward Sentani Loh. (south of Hollandia). Shot 1 Dorcopsis with one young.

The morning was spent preparing specimens and the afternoon in developing and cataloging pictures.

This evening one Dorcopsis was brought in by a native.

The Rattus prepared today was collected

by one of the Dyak coolies. It was probably caught near their dwelling quarters behind the godown.

This morning Guba landed on the Idenburg for the first time. They (Captain Terrink, Lieutenant ? and Dick) inspected the region for a camp site. A suitable one was chosen and ten men and their month's food and equipment were taken in this afternoon. At present they are loading the ship in preparation for an early flight in tomorrow.

The two Malayan mandoes, who are to be left in Hollandia as collectors while we are inland, were given 25 traps each to set in the jungle for rats etc.

June 29 Hollandia Netherlands New Guinea

440 traps - ~~4 traps~~, X ~~traps~~

Purchased (354) 1 Edmysia and another juvenile was bought in the Papuan collector during their daily hunt through the jungle. These two collectors also bought in a Melomys.

The early morning I was in the cut-over rain forest north of Hollandia. Late returned to Hollandia and prepared specimens. In afternoon attempted to show the two Malayan mandoes, Marco + Cornelius the method of preparing mammal skins. Remained of time spent in preparation of mammals caught.

This evening I went hunting with the flash light again. Along the trail to Sentani Lake south from Hollandia. I was not able to obtain a specimen but I had a quick glance at a Melomys-like animal as it scurried through the thick brushy cover of a lime-wood butcup in a cut-over rain forest. Also saw one Edmysia running along the trail through the

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rain forest and along leaf covered open spots. It is quite possible that it was hunting for frogs and insects which were numerous in that area.

June 30 Hollandia, Netherlands New Guinea.

44 traps - 1 Rattus

1 Dorcopsis was brought in this evening by natives

This morning labeled frogs and had out prepared, as specimens. Afternoon I went into the jungle looking for mammals of any sort but was unsuccessful. This evening I again went into the jungle to follow the line of flight of the bats. (see separate of Hypsignathus)

Lieutenant Schuyden finally gave me the list of members of the military and dental scientific party. With that in hand I will make a list of our expedition members.

American party:

3 Scientists - Bruce Ford, Richardson
8 Non scientific - Archbold, Beath, Brown, ^{Young},
Rodgers, Ramm, Stone?, Weibke.

5 Cooks

9 Makassar coolies

2 Malay collectors

Dutch party

Dr. Foxopens

1 assistant

2 collectors

2 boys

Dr. Meyer Drees

1 assistant

Military

1 Captain

3 Lieutenants including the doctor

6 Sergeants

47 Soldiers

30 Captives

72 Dyaks

1. Dated radio generator

This is a total of 195 men which is with us for the period of the expedition.

July 1 Hollandia, Netherlands New Guinea.

443 traps - 0

This morning I cleared up about the room, putting a number of things in order. This afternoon went on a long hunt; up the stream north west of the Hollandia house for about 2 or 3 kilometers, they up the steep rocky hill slope, to the east, to the ridge, followed the ridge for 2 or 3 kilometers northward, then back along the ridge, to Hollandia. The evening first before dark I went returned to the late line of flight. (See species notes for *Myiophobus*)

Today the 5th flight to the Stirling with men and supplies was completed. The quickest trip from Hollandia to the Stirling was 56 minutes; it averages about 1 hour. It takes from 40 minutes to an hour to walk. According to their reports they have a good dry camp near a small stream. The route between the seaplane port (a lake near the river) and the camp is through forest swamps for a distance of about 40 min.

Capt. Terink said that he had found a house just recently destroyed by fire, a good track leading toward the mts., and some spears placed along the track.

Tomorrow morning the Guba is scheduled to leave for Port Moresby. It will return in two or three days.

July 2 Hollandia, Netherlands New Guinea.

443 traps - 0

Yesterday evening two *Orcoptes* were brought in by natives.

In camp this morning. This afternoon hunted in the cut over forest north east of Hollandia. No luck. This evening followed the line of cut

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flight again. Took one specimen (Hyposidurus) along the line.

July 3 Hollandia, Netherlands New Guinea.

443 traps - 1 Kattus

This morning being Sunday we took a trip; something like the postman's ~~day~~ day off. This, however, was in our newly acquired motor boat to Tim and then on to Mr. Keen's plantation.

From him we purchased 2 half grown Dendrologes which I shall attempt to keep alive for studying. A life history study comparing Dendrologes, Phalanger and Dorcopsis would prove very interesting.

This morning an adult ♂ Phalanger was brought in. It will be prepared tomorrow.

This evening from 8-10 I spent hunting in the jungle north east of Hollandia. The boys saw a lion Hyposidurus in the grass which they caught. I also saw a Melomys ~~exul~~ crawling about the thick undergrowth. It was about 2 meters off the ground running along small limbs and now and again hesitating to foot around. When disturbed it sought the thick undergrowth and grass for escape. The character that led me to put it in Melomys rather than Kattus was the soft whitish fur of the belly and the plump shape. I believe that it is the species commonly taken in the traps in this vicinity. I also saw three or four large fruit bats hanging near the top of a tall tree. This tree or a neighboring one contained numbers of small ($\frac{1}{2}$ ") blue fruits. I presume that the bats were feeding on these fruits for at times it sounded almost like rain from the hunk seeds and fruits that come down presumably as the result of their feeding.

July 4 Hollandia, Netherlands New Guinea.

443 traps - 1 Pogonomys

One Rattus was purchased from a local native. Two Phalanger were skinned today, one an adult ♂ which was brought in yesterday and the other an adult ♀ which has been held captive for some time (See species notes).

July 5

Hollandia, Netherlands New Guinea.

442 traps - 0

This morning several of us took a boat trip to "Tanjung Soko". It is the peninsula that forms the eastern part of Humboldt Bay; that is it is an extension from the mainland that partially encloses the bay. It is situated 11 km. south east of Hollandia. Here there were large rocky cliffs of lime stone that had been eaten into by the sea. One of these, the largest that we saw harbored bats in large numbers. On skimming netted three genera Miniopterus, Dobsonia, Myotis. (See species notes). Returned home at noon and the rest of the day has been spent in preparing specimens. In fact I have many left to prepare tonight.

This afternoon a local Paragon brought in 4 Dorcopsis, 1 Sus. One of the Dorcopsis was brought in alive although badly mangled by dogs. If it will live in the cage it will be used for comparative life history study. [Died following day]

One of the 7 ♂ Dyaks died today. Rand gave them 4 sheets of iron, and some cloth for the coffin. It is unfortunate that it happened but it is difficult to avoid. His death was due to pneumonia. Doctors could not save him.

July 6, Hollandia, Netherlands New Guinea.

442 traps - 0

The entire day was spent in preparing specimens.

Four Dorcopsis were brought in by native

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this evening

A Chalanger, snake, lizard, and frog were brought in by one of Mr. Ebeli's laborers. According to the note the Chalanger was taken at 600 M. on the Cyclops. The other vertebrates were probably taken at or near the same locality.

The Gully returned this afternoon from Port Moresby via Daru. It brought with it anchors, anchor chains, radios, provisions (delicacies), etc.

This evening there was a request from the govt. (Mr. Hogland) to aid the Bentam which is stuck on a desert is. some 90 mi. to the west along the north coast of N.G.

July 7 Hollandia, Netherlands New Guinea.

442 traps - 1 Rattus

Purchased another Rattus from a local native

This morning spent in preparing specimens and the afternoon in learning the intricacies of the new portable radio. This evening I went hunting with flash light. Saw several bats but that was all. Perhaps the rain had something to do with my poor luck.

This evening 2 Piperas came from Mr. Ebeli with 2 Phalanger (1 molle - 1 menteh?), 1 Echymisera, and one lizard. According to the note that accompanied them the 2 Phalanger were taken on the Cyclops Mt. 300 M and the Echymisera & Lizard on the same Mt. but at 200 M elevation. I hope to be able to keep them alive.

July 8 Hollandia, Netherlands New Guinea.

442 traps - 1 Melomys

This morning developed specimens, and this evening afternoon prepared specimens. Mr. Ebeli sent in 3 Echymisera today. They were probably taken at or

near his plantation and saw mill near Dojo
at Sentani Lake.

This afternoon, ^{one of} my Papuan collector
returned from Gijabo, Sentani Lake, with a
box full of bats. According to him they
were taken $1\frac{1}{2}$ hrs. south of the camp in
a cave. There are three sp. Myotis + 2 Miniopterus

The heavy clouds and rain prevented
the Guba from flying to the Plumby
~~at~~ until this afternoon (it's 4th trip to 2. Km) and
the same sort of weather prevented its return
to Hollandia this evening.

The govt. sea planes arrived this
evening.

July 9 Hollandia, Netherlands New Guinea

#42 traps - 1 Platys

Spent the entire day collecting skinned
mammals.

3 Dorcopsis were brought in by P. Pearson;
1 Phalanger, 1 Calycomys each with a young were
brought in during the morning hunt of the collector.
2 Thomomys, one with emb., were shot yesterday evening
during my nightly hunt; 6 Soborovia were
brought in by P. Pearson from Mr. Birkman.

The Guba returned this morning from
its 4th flight to the Plumby being Cape
Serind out. This afternoon it was pulled
up the ramp for the first time. It
killed in good condition no barnacles, etc.

A small govt. vessel came in this
morning and borrowed our oil drums to
attempt to float the Benton home.
For six days now it has been stranded
on a small island.

July 10 Hollandia, Netherlands New Guinea

Sundry traps set today (also raining)

Today was spent gathering about the house.
The rain prevented my taking a tour of the region.

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Time was spent about the new animal house watching the actions of Phalanger and Dendrolagus. Soon I shall draw up a comparison of their activities and behavior as much as can be determined from caged animals.

July 11 Hollandia, Netherlands New Guinea

442 traps - 1 Rattus

One of the natives brought in a Myotis from Engwas.

Today has been spent in preparing specimens and packing equipment for our trip inland.

The airplane is still on the ramp being given a 100 lb. check. It is about 162 hours of flying time to its credit since leaving San Diego, 50 of which was on the way down.

Capt. Fink said today that there would be 26 in the party leaving from the Idenburg toward Habbon. They probably will not leave for a week or two yet. They will have to wait for the establishment of our camp at Habbon.

July 12 Hollandia, Netherlands New Guinea

442 traps - 1 Rattus.

Another Rattus was brought in yesterday evening by a local Papuan. There were three Echymipera skinned today, two of which were brought down from Mr. Ebelis (near Oija) and the other brought in by a local native. Mr. Bindman sent in 2 Dobsonia and 4 Phalanger.

Prepared specimens today as well as started the preparation of more bait. The bait seems to be disappearing rapidly. Word came from an acting Lt. Colonel A. radio from Lieutenant Van, Areal stated that they they had been

inspecting the route to Hallyma from
the Idenburg River and that the first
ridge (1750 m. high) could be reached
on my long day of travel. From this
there is a good ridge leading westward
north of the new lake.

July 13 Hollandia, Netherlands New Guinea

392 traps - 0

Yesterday I brought in the traps (56)
set on and about the cut over grassy area
to the north of Hollandia. I do not recall
having taken a single specimen from
these traps since they were first set out.
Today the remainder of the Dyakos traps
(172) were taken up. They had been set
south of Hollandia about the base of the
lime stone cliff and in the rain forest
above. These traps have yielded very
little.

Yesterday evening a Pipistrellus
and a Phalanger was brought in by natives
who had collected them in the immediate
vicinity. The gray Phalanger brought
in from Mr. Ellis near Dojo died last
night. A Rhinonycteris and two
Dorcopsis were brought in.

The day was spent in preparing
specimens and making, but for the
interim collecting. Little of interest happened
about camp today. The Sula is being
checked and checked, following the boat is
being over-hauled and collecting goes on
much as usual.

The name of the Idenburg camp
is to be called Bernhardt in honor
of Pinus fulvaris hybrid. It was his
birthday that the camp was founded.

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July 14 Hollandia, Netherlands New Guinea.

200 traps - 0

A Phalanger, Myotis, Comballonura and Sau were brought in by Pegano. This morning I prepared specimens and this afternoon I went into the lat cave 1 km Southeast of Hollandia. There I obtained 10 Procyonidomys ⁽⁴⁺⁾ & 2 Rhinolophus.

This morning we had the first test of the new ^{cargo} gear-chutes. They consist of a square piece of cloth 12 x 12 with 4 cords tied to the corners and the other end of the 20 ft. (?) cords attached to the cargo. There were six chutes dropped; the first cargo and chute separated and was lost in the jungle; the second and third - the chute failed to unroll due to tangled cords ^{50% waste}; 4th + 5th the chutes opened but one cord broke which allowed the cargo to come down rapidly, the food was not injured (cond fruit & meat); the 6th was a perfect delivery of a box of bottles. The three sacks of rice dropped two looked uninjured and the third had a small rip which lost 1 qt ± of rice.

The monthly mail boat is due tomorrow so I must close to write a letter home.

July 15 Hollandia, Netherlands New Guinea.

200 traps - 0

The natives brought in 3 Dorcopsis. Mr. Chelis brought in 3 Echymipera and 3 Petaurus from Dojo (vicinity). The bats will be prepared in two or three days, the former prepared today. Prepared two Chalanger which I had ^{held} in captivity for the past few days. The ♀ 4392 was brought in from Sentoni, the other is local. The Pogonomys was brought in by Mr. Binkman from his plantation near Pem.

The most interesting things seen and were the bats taken in cave 1 km. south west of Hollandia. The men of Hippocampus, and 1 sp. Chirolophus.

The day was spent preparing specimens, packing cargo for our monthly supplies inland, and checking cargo from the monthly boat.

Early this morning (5:30 AM) the Guba with its crew took off for Babbenia Lake. It is the first time that this or any other plane has to my knowledge landed at an elevation of 11,000 ft. It reached the lake in 1:10 minutes, circled about and landed. They got out the bow, selected a possible camp site, landed some oil and gasoline, and returned. This flight out took 1 hour and 10 minutes. Dick reported after he landed here that there were numerous runways through the grass that had probably been made by mammals.

This afternoon the K.P.M. arrived bringing with it the monthly mail and the unusual activity to this little village.

This evening the 4 Dyak collectors went hunting with flash light. They returned with an adult ♀ Echymipera and in young.

July 16 Hollandia, Netherlands New Guinea.

200 traps - 0

The Echymipera and young were shot last night by my Dyak collectors while out hunting with flash light. The Myotis Hippocampus, Dorcopsis, and Petaurus were brought in by natives, ~~and~~ Petaurus was brought in two days ago by Mr. Ebelis from the vicinity of his home near Sentari Lake.

Today has been spent preparing specimens and packing equipment for our trip inland.

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July 17 Hollandia, Netherlands New Guinea

The 200 trays were taken in yesterday.
A Dorcopsis was brought in yesterday evening and prepared today. There was also a large number of Hippoboscids (2 sp.) brought in today.

This morning I prepared a few specimens but most of the day was devoted to the packing and checking of equipment for the inland party. I left on the 19th for Habema Lake with the first ship load of men and equipment.

July 18 Hollandia, Netherlands New Guinea

Prepared a long series of bats this morning and this afternoon finished packing equipment for tomorrow flight to Habema Lake. This afternoon I also spent some time in the cage of the Dendrolagus recording his history notes.

July 19 Habema Lake, Netherlands New Guinea

This morning at 5:53 the Guba left Humboldt Bay, with cargo and passengers, for Habema. It is the first flight in carrying the inland party to its highest base. The cargo contained provisions for 2 months for inland party, equipment to start preparation of the base camp, lumber for gear, radio equipment, etc. The crew which loaded, other than the plane crew (5), consisted of Captain Terrink, 1 sergeant, 4 soldiers, Amatong cook, and myself. We landed on the lake at 7:15 and within 15 min we were ~~dis~~discharging cargo which took about 1 hour. After that the plane crew put a 'down good' pin; Capt. Terrink selected a camp site and the soldiers prepared their quarters. Booth with the aid and assistance of others put up the portable radio; and Archbold supervised the erection of a tent. This

that is to be my tent, radio shack and sleeping quarters. It is not completely as yet so we are sleeping on the wet ground with a heavy tarp between us.

This afternoon Booth and I took a look about the region to the north and east of camp. Just a leisurely stroll picking "paries" for Brass.

We have been having meals out on the Guba and tonight topped the works when Steve prepared corned beef that really didn't taste like that corned pork at all. It was really O.K.

At 7:30 it began to rain. Cap. Tenwick returning from the Guba though what seemed to me a particularly heavy squall just went for his. It is now quite after 8:00 is still raining but I can barely hold in bed as good night.

July 20

Habbema Lake, Netherlands New Guinea

After the 6:30 radio contact we went aboard the Guba for breakfast and a good one it was. Another Rodgers Brown culinary triumph. After breakfast we (Tenwick and myself) returned to camp and left the plane crew aboard making preparations for their return. At about 8:00 the Guba left through the haze, covering the lake and disappeared around a point.

At the next moment it was in the air above the hills south of camp heading toward the base. Another successful attempt at take off. It could hardly be called an attempt when watched the apparent ~~eye~~ ^(Tenwick's squall) take off.

Our day's work today consisted of completing the construction of my sleeping tent. Yesterday we pitched the tent itself and today we put in the floor. It consisted in putting six uprights to get the floor off the ground 18 to 20 inches. Three stringers, a solid floor of *Alouedra* poles, and a 4'-6" mat of *Sty. scirpus* ^(at 9:00) bms.

Our work was broken this morning by a series of coyote like barks. Shortly afterward we saw 4 men and a boy coming across a grassy clearing across the lake to the west. They were walking along the bank which passes along the

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north edge of the lake. Their manner of progression was not one of hostility but rather one of inquiry. Taking every opportunity to keep well sight of us. Their carried bows and arrows in left hand horizontally over their heads and what appeared to be another singed arrow in the right hand. This party of 4 men and one boy (8-12 years) came along the trail to within 200 yd of camp and then stopped, set their arrows aside and built a fire which they continually put green *Sibicodon* boughs on. This made a heavy smoke screen. All this was done on a small ridge in plain view of camp. Here they stayed for about an hour making occasional calls but mainly watching our activities. About 10:00 several groups of natives coming across the snow open glaze lake edge. They followed the trail of their predecessors, passed the little house south of the lake when they built a smoking fire and on to join the 4 men and 1 boy. Soon after meeting they proceeded at a quick pace along the trail, which passes over the saddle within 100 yd of camp and through the grassy valley to the north of Fulber. As they passed along the trail I counted 14 in their party. Most of them were carrying a small pack with on their backs or in a ^{sack} sack with a string about the head. I assume that they were women although I am not definitely sure. On looking at the men while standing about their smoke fire they appeared to me little more than a series of girds and a few armbands. Some portion of an hour after the group passed through the saddle we (Cap Terrell, 5 soldiers, and the cook) went over the ridge to watch the retreating party. They were nearly a mile away. On calling to them they stopped looked about and then went

hastily into the thinly forested hills to the north of them. As we returned they were laboring up the hill slope.

July 21 Habema Lake, Netherlands New Guinea.

This morning at 5:30 had a search with A but was unable to contact. Tried for 1 hr steady and again for 15 min from 7 on. At 7:30 had successful contact as well as at 10:00 AM and 5:30 PM. It has been raining a light steady rain since 3:00 AM. This incessant rain has prevented the soldiers from working as well as ourselves. The soldiers have been huddling about the fire in front of their shelter all day. This morning we too sat in our tent hoping the rain would stop. By 1:30 we became disgruntled with the weather so Cap. and I went out rain or no rain. We took the boat across the lake to the west and followed along the trail from which we had seen the Pigeons coming from on the following day. It goes in a general south westerly direction for the 2 1/2 miles that we followed it. We were interested in signs of human habitation and this is what we found. The hunting shelter, one of which was built of logs. It was a lean to affair with ridge pole (5-6 ft off ground) supported by a tree and a forked pole. Against this ridge pole there was placed 11-15 geasts. There had been little attempt to chink the logs up. A fire had been built in the middle of the small room and a few bits of grass laid on the shelter side which had probably served as a sleeping mat. The other house, and more recently built one was made with a peaked roof. The ridge (about 6" off ground) was supported by 2 forked sticks. The 4 corners were braced held up with forked sticks. The supported roof was made of sticks, boughs, grass, moss, etc. It was hardly what one might call

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water proof but it was far superior to the lean too. The entire room covered a space about 9' x 7'. There were no walls or attempt to brush in the side of the building. Perhaps this was not necessary because of the protected brushy spot in which it was built. In the middle of the room was a well used fire place and about which was strewed freshly sheathed grasses and reeds. There had been used as a sleeping mat. The logs or larger sticks used in the building, as in the other, had been cut with a blunt instrument such as a stone axe. Along the trail there were numerous old camp fires. We found a bundle of bark which had been used to cover fire, the handle of a stone axe, several gardeners leaves which had been used for rapping, a pig rib, portion of a burnt young pig skeleton, a basket-like bundle of fungus and grasses. This latter was curious. It has a pile of litter above the ground which had been made some time ago. In this litter there was known several balls of green grass which had been recently added to the mass. In the mass there were several broken red arrow shafts, only one of which had a point and that two small shafts of what appeared to be a fishing arrow. The trail over which we passed was well worn apparently being one that has been in use for many years and in continuous use. The human foot prints in the trail belonged to people with relatively small feet. There were also pig-like tracks along the trail. They were apparently small animals accompanying the humans.

July 22 Habbema Lake, Netherlands New Guinea.

The weather began clearing this morning and by the time the Guba arrived (7:30 ±) there was a blue sky and few light clouds as contrasted with the dull rainy yesterday. Cargo was unloaded and brought into camp. After the plane left Mr. Brisco, Corp., and myself searched about this region for a suitable camp site for the Europeans. A good one was found north east of the soldiers camp about 50 yds. Here we tentatively arranged the location of the 5 tents, the cook tent and the cooks living quarters. With the aid of the soldiers the cook tent and shack is nearing completion. This afternoon we took a short walk about the ridge to the east of camp.

July 23 Habbema Lake, Netherlands New Guinea

The fog over the lake prevented the plane commencing in at its usual time 7:30. It was forced to circle about for 20-30 minutes before the weather cleared sufficiently to make a landing on the lake. On landing they taxied up to the bowie, made fast a ^{bow} line, Brisco rowed out attached the stern line and returned to shore with end of rope and with the aid of the soldiers pulling the Guba was brought in tail first along a ridge to the dock. The plane is unloaded within half an hour, a cup of coffee, a few jokes, and it's off again. The ease and rapidity with which the cargo is discharged is almost remarkable. Efficiency +. After the plane left we returned to the making of camp. Brisco and Capt. Jorink tents were set up; the cooks tent finished; stores moved into the kitchen. The first of the Dyaks came in this morning and they have been busy building themselves a shelter of atop and native material. The soldiers and corporals have made this shelter larger to house the larger number of men. They have also been at work on the military godown, the

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roof in on and the floor is partially completed.

Today has been a beautiful day, sunny and bright all day with the exception of the early morning lake fog. 3 days like this will continue collecting here will be a real pleasure.

July 24 Habbema Lake, Netherlands New Guinea.

This morning was beautifully clear, not a cloud even the early morning lake fog was not present. The plane "Guba" arrived, unloaded its cargo and returned. It is the arrival of the plane, a common plane thing now expected rather than anticipated. Today my activities centered in the ~~the~~ shifting of my tent from its previously low wet locality to the higher, drier camp of the Europeans. A new area was set up, and the bed in ~~to~~ ^{to} ~~it~~ ^{it} ~~used~~ ^{used} my tent. This afternoon ^(3:00) it began to rain and so little work was done. I straightened things within my tent and practiced code. The rain makes one feel lazy in spite of the work before me.

Last night a native camp fire could be seen across the lake. This morning a wisp of smoke came forth and this afternoon a good deal of smoke could be seen. About 3:00 this afternoon 2 natives were seen passing along the trail near camp. They went through the saddle and into the grass valley to the east of us. I wonder where they are from, where they go and what purpose they have to travel.

July 25 Habbema Lake, Netherlands New Guinea.

This morning the plane came and left as usual. After its departure we began the building of the dining room. It consists of one long fly, a small fly covering one end, atop the other, the low walls lashed in with cedar logs, a floor in

one half and an open fire in the center of the other. It is really a very comfortable eating and lounging spot in spite of the smoke. We also put a small shelter for the thermometer. Brass is going to keep temperature records.

This afternoon I set out 50 rat traps and 2 steel traps. The line runs south west from camp, across a little gullie, up to the ridge and south up the ridge for a short distance and then into another gullie and onto the ridge. For the line was broken the remaining 20+ traps set along the lake edge. These traps set along the first portion of the line (30+ traps) are in runways or at the entrance of burrows in the bushy sphagnum clumps and thickets. The degree of moisture depending on the slope and drainage; the traps being set in sphagnum of different degrees of wetness. The traps along the beach ~~or~~ rather lake edge were set in grassy runways or bounding mossy thickets. The two steel traps were set in large runways in or along the edge of these grassy thickets.

This afternoon one of the convicts brought in two small lizards which I take to be Pseudochelone. I will not be sure of their identification until I see their teeth. ^{They} showed me the exact spot from which they were taken. It was a ^{moss} sphagnum clump about the base of a Salix in which there were numerous burrows. These burrows were not dry nor were there signs of dung about which might indicate that they were in constant use. According to the story of the convict ~~he~~ he went to cut the tree down, about which this sphagnum clump, and the "Mama" ran away through the brush and sphagnum. On digging into the clump from which she came he found the two young [?]. They were near the top of the clump, the drier portion exposed to the sun.

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July 26 Habbema Lake, Netherlands New Guinea.

50 rat traps, 2 steel traps - 5 Stenomys, 1 Pogonomys

The plane came in this morning as usual with its load of cargo and passengers. After a quick check-up of its cargo it left for Wewak in the Mandailing territory. After the plane left we concluded our breakfast after which I accompanied by Bruce, Terence, Kells and one of my collectors went the rounds of the traps. (For results see above.) The rest of the morning and early part of the afternoon was spent in preparing these specimens. This afternoon I and my collector set out 50 rat traps and 2 steel traps.

These traps were set south east of yesterday's loc. 25, began at the top of the low hill south of camp and continued in a general S-SE direction down a small spur, through a gap, up another ridge to the top of it and another low hill and part way down a small steep spur leading to the north shore of the lake. This region was selected because of its comparative dry nature in hopes of catching more Pogonomys and Bandicota. Although fairly well drained there is still spongy clumps about the bush and trees about and between which are small openings of dry hiked or more covered ground. This evening there is the routine radio scheduled and a meal looked forward to dinner. (as per usual).

July 27 Habbema Lake, Netherlands New Guinea.

100 rat traps, 3 steel traps - 6 Stenomys

Today the plane arrived about 8:30 A.M. with its 2nd load of freight for Habbema Lake. There on this evening 68 men here with provisions for two or more months. This morning after the Gula left, I prepared the specimens taken this morning. This afternoon was given to odd jobs about camp; roving in the cokes tent, staking up an tent, helping with floor in dining room, building cage for Pseudacris, etc. This morning the Dr. + Capt. made a patrol through the grass valley north of Habbema, and into the

ridge at the north of the valley. They reported having seen 5 natives, several houses, and a good trail leading to the eastward.

Our camp is nearly completed, a tent each for Paul, Bruce, and myself, a store tent, the cooks tent with a fly in front for cooking, a fly each for dining quarters, preparation quarters and for our Dyak collectors. The similitary camp is large with separate separate quarters for soldiers, convicts, N.C.O.s, and Dyaks. In addition they have mess quarters for the "non coms", a large godown, a fly pole, guards quarters, W.C. etc.

July 28 Haberna Lake, Netherlands New Guinea

100 rat traps, 3 steel traps - 1 Stenomys, 3 birds.

Today the Gule made its 8th cargo flight to Haberna. Today he has spent about camp doing odd jobs and is building a cage for the Muschicivora, developing pictures, etc. Our camp now is quite complete with the exception of a few sundry jobs. I am now waiting for the remainder of my equipment and for the two Dyak collectors. With their arrival I shall be able to start work in earnest.

July 29 Haberna Lake, Netherlands New Guinea

100 rat traps, 3 steel traps - 1 Stenomys, 1 grouse.

The grouse was taken in a steel trap set in a trail through the grass thicket along the edge of the lake.

The Gule came this morning with its 9th load of cargo and passengers. This morning was spent working about camp. This afternoon I set out 50 more rat traps starting from the far end of the line running along the ridge making a turn at the last end then proceeding over several ridges in a north east direction. Late afternoon I spent in helping Mr. Chaki set up his radio.

General Account

July 30 Habbera Lake, Netherlands New Guinea.150 rat traps, 3 steel traps. - 2 Steromys, 1 bird.

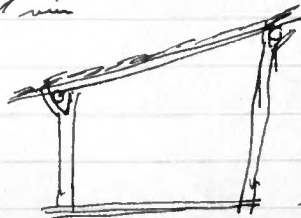
This morning was spent about camp. The most important thing that happened being the ^{first} contact with the natives. Rand, Brass, Ferrind, Phila, 2 selbina and a Dyak participated in the contact. About 9:30 ^{the natives} they were heard calling "cogek fusion" from the ridge east of the low ridges east of camp. According to those participating in the contact the natives come certainly across the ^{grass} valley toward camp. A Dyak was sent out to meet them and according to instructions ~~made~~ cooked them to the remainder of the party. Hands were shaken around. This brief contact of 5 min. was spent in trying to determine the region from which they came. "BE NEN A WA" was the name from which they came. The "WA" being the name of the river. On mentioning the name of above the all men and heads ~~parted~~ ^{parted} in the region of the Grand Valley. Without warning the group of 11 men turned without warning trotted out of arrow shot and ~~then~~ walked across the valley. Their clothing consisted of a penis gourd. ~~and~~ ^{some} some of them carried bows and arrows and there were several stone adges in the group. They wore few ornaments if any, their original hair was matted, and they wore a black paint on their faces. Rand finished by saying it was a good contact. The arrow and bow were carried in some hand. The name they gave to the river pointing in the north "BA LEN A WA"

This afternoon Rand, Brass, and myself explored the eastern half of the lake shore. We used a boat from place to place about the shore by boat getting out and ~~had~~ ^{had} the country over for mammal signs, birds, etc. The northern shore of the lake is bordered by a thin ~~bed~~ ^{bed} of grass which gives way to Litsea, rododendron, and moss. In some places the grass are entirely displaced by these three dominant plant types.

The eastern shore of the lake, to either side of the inlet broadly, is marshy. This is an extensive area here of lowland covered with grasses, sedges, and other grass like plants. For the most part these grass-like plants are thick and matted at the or above the ground surface and often impregnated with mosses. There is a small meandering stream passing through the broad grassy valley and emptying into the lake (the inlet).

Along this stream are a few scattered tree ferns. To the south or south east side of the lake there is a grass-shrub moss border of 10-20 ft wide which gives way to a low, poorly drained, luxuriant grass vegetation. As soon as one leaves the lake border he notices the change from dense low vegetation to the low poor vegetation. The difference is probably due to the temporary influence of the lake on the immediate surroundings. South and south east through the low luxuriant grass land the land rises and there are 10 ft more ^{not} ~~not~~ ^{not} which are probably due to the higher land limestone formation beneath them. The vegetation of these rocks consisted of mosses, and low wind blown shrubs on the north side. On the south side a vegetation much like that of the northern lake shore or rather the hills or forest slopes ~~at~~ above the lake shore with the exception it was much less extensive being limited in width here to 20-30 sq. yd. At the ^{small} ~~small~~ ^{small} central portion of the lake there is a peninsula extending for about 500 yd into the lake. Its vegetation is much like the other Libreda forested regions. The most interesting thing about it is that we found the 1920 camp of Cronin and von Arhel. They were the first and only other party to visit this region. They had built a line of shelter some 20 or 10 ft long with ^{small} ~~small~~ ^{small} log floor and a pole and bark roof. Sketched of roof view

The type of shelter is the same as in road here by our soldiers and Dyaks. There was also a stack of firewood and old fire poles about.



[Note the roof had fallen down and structure in bad state of decay.]

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It was not a *Papuan* camp as shown by the stilt and cut trees, hard bones, construction of camp, and staked fire wood. From this perch we returned across the lake to the bay and camp.

July 31 Lake Habbema, Netherlands New Guinea.

150 rat traps, 3 stilt traps - 2 *Stenomys* (different species)

1. Plascogale

This morning the 11th and last of the cargo flights to Habbema was completed. The Suka has brought in some 60,000 lbs of store men and equipment to Habbema. The personnel consists of approximately 110 men.

The Suka was turned facing shore and every available man in camp was placed on the wings for a photograph. I hope that it turns out to be as good and as respectable as the best similar New Guinea pictures of the previous expedition.

The most interesting thing in the morning's happenings was the arrival of two friendly natives. They came within 50 ft. of the edge of our camp, squatted on the ground and proceeded to talk to us in their own and sign language. All that I could decipher from such a manner of communication was that the two savages were going back to their village, pointing in the direction of the Grand Valley, and with 2½ days would return with many men and pigs. The only clothing that the two wore was a penis gourd. In addition they had amulets, bracelets, and one wore a coarse mat of log-like thing over his hair. They both carried a bow and arrows as well as a woven mat bag under their arm. It was in this bag that they carried their personal belongings. Both of them had smeared themselves with charcoal powder which gave their cheeks brown

boddies a black dirty look. Both natives were faintly, especially the elder of the two, the spokesman. He was always grinning and it ~~at~~ often broke into a laugh as we laughed. The other a solemn young chaps never spoke to us but kept his keen shifty eye on our activities. He appeared to be the body guard of the elder man. We offered them gifts of tobacco, matches, salt, cammie shells, salt, dried fish, a steel axe. Thus they returned to us before leaving apparently not wishing to be under any obligation. The elder of the two had an old steel axe which he highly prized. This was the only trophy which he showed to us.

This evening the plow crew, Rodgers, Archbold, ~~Rudd~~, and Brown, stayed in for the official opening of camp. After photograph of the expedition members on top of the plow the soldiers, Dyaks, captives, scientists etc. gathered beneath the newly erected flag pole. Archbold made the opening speech, followed by a speech ^{in English} to those of us that understood, and another to the soldiers in Malay. On completion he erected gave Archbold the honor of erecting the Dutch flag over camp. He then had the Europeans drunk to the health of the Queen etc. with Terink's special wine.

Aug. 1 Lake Habbema, Netherlands New Guinea, 3225m.

150 rat traps, 3 steel traps - 2 Stenomys
This morning the Guba left for Hollandia. Its next scheduled flight to our base is Sept. 2. It left me with the feeling of being isolated from the outside world. Captain Terink with his party of 47 men also left this morning for the Grand Valley. There were 20 Dyaks, 14 soldiers, ? officers. We

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Cheli, and convicts. He is to open up the part of the trail between Hobbs and the gun lake. The party left in good spirits although I couldn't help feeling a bit sorry for the Dyaks carrying a load of 30 or more kels. After they were packed and ready to have the soldiers distributed 2 k. ox to each in addition to their already excessive loads. According to the contracts, they were to carry a 20 kelo load but the Captain said it was impossible to travel so and gave the over load as an extra precaution. One thing I cannot quite picture in the radio battery packed at the top of the load, the place where it is most easily broken and where if said spills it ruins the rest of the cargo. "These Dutch they are a funny race"

This morning I set out 197 more traps along the grassy vegetation of the lake shore. The line begins near the dock below camp and runs around the north end of the bay to the middle edge of the grassy valley on the western shore of the bay. 95% of the traps are set in - along the marginal grass of the lake shore the other 10% are set in the broad meadow near where it borders the lake. Traps with ~~an~~ exception are baited with a mixture of dried fish, oat meal, honey, and peanuts, and placed in the runways to be found in this region.

This afternoon I set out 75 traps (net) along the stream that flows along in the ^{western} part of the grass valley just east of camp. They were set along in the ^{higher} grass margins of the stream where there are scattered low land clumps and tree ferns. Prior to the setting of these traps the line which I first set out was collected with the exception of the traps which were missing.

This evening it has been raining, one of the hardest rains since we have been here.

This afternoon a group of some 10 or 15 natives made a detour above camp and following the trail leading to about the bog and off toward the west. I saw them on returning from setting traps. I begged them to see but they expressed their desire to continue along their way and I was to go along mine. They were a shy nervous group.

Aug 2 Lake Habbema, Netherlands New Guinea 3225 m.

197 mouse traps, 175 rat traps, 1 steel trap -
15 Stenomys 2 sp., 2 Pogonomys, 5 Rattus, 2 birds.

This morning I prepared specimens. This afternoon I set out the remainder of my rat traps, a continuation of the line up the grass valley stream east of camp. There are now out 197 traps of this type 97 of which are along the grass and shrub borders of this small stream. The remainder of the afternoon was spent in preparing specimens.

Several groups of natives were heard today shouting in their characteristic fashion, but none came into camp.

Yesterday 2 soldiers and 1 Dyak returned from Terinke's party with an injured convict. The convict "Non", one of Terinke's personal carriers, slipped and fell hitting his groin on a rock. He was brought into camp on a stretcher and attended by the doctor. A report today from the doctor said he is not seriously injured and recovering.

Aug 3 Lake Habbema, Netherlands New Guinea.

197 mouse traps, 197 rat traps, 1 steel trap. -
11 Stenomys, 1 Pogonomys, 3 Rattus (#560 was taken yesterday), 2 birds.

This morning I prepared specimens. This afternoon I went out in search of different types of habitat in which to set my traps. I followed along the ~~ridge~~ ^{spur} from camp

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mountain between the lake and grassy valley. This spurs continues in a northerly direction for about 3 kilometers when it joins with the main ridge which extends east south east to the Grand valley. From the highest of this ridge I could see the Grand Valley and one of the spurs tributary valleys. The closest settlement was about 4 miles distant in line. A group of 2 or 3 houses could be seen and gardens with its crops rows. At the top of the ridge there is a trail leading down into the valley to the north (drains to S.W.) and along the top of the ridge to the east.

This evening one of the Dyaks came into camp with a live animal which appears to be a Eudornicia. It is an agile little creature moving about its cage in a nervous manner. Notes will be made on it later.

Aug. 4 Lake Habbema, Netherlands New Guinea.

197 mouse traps, 197 rat traps, 1 stick traps -

8 Stenomys, 1 Rattus, 1 Hydromys, 2 birds.

This morning I prepared specimens. This afternoon made notes on my caged animals, Eudornicia and Pseudochinus. This day has been a difficult one for collecting, few specimens and much rainy unpleasant weather.

Aug. 5 Lake Habbema, Netherlands New Guinea

197 mouse traps, 197 rat traps, 1 stick traps -

6 Stenomys, 1 Rattus, 1 Phascogale, 1 Hydromys.

The Eudornicia was brought in several days ago. (see game notes)

This morning I attended traps and prepared specimens as usual. This afternoon I changed a line of traps the 100 (9.5 pm) which were set on the ridge south south east of camp to the region ^{north} north south of camp. The line begins at the head of the grassy valley (westernmost streamlet) through the light open forested region, into a hillside grassy slope, along border of grassy slopes and brush, in low brush and many ridges, through a dense

high brush and moss canyon with small stream, on dryer ridge,
and down a relatively well drained canyon with grass and
brush. On short the line starts from the western
head of the grassy valley (north end of camp) and over the
long spur (leading toward camp from north) and down the opposite
slope for a short distance.

Aug 6 Lake Habbema, Netherlands New Guinea 3225m.

197 mouse traps, 191 rat traps, 1 steel traps. —
14 Stenomys, the Pseudochirus was brought in alive July 25
by a captive.

This morning I tended traps and prepared
specimens. This early afternoon I set out 10 steel
traps along the southern lake shore to the east of
the log. Here in the peaty lake shore were
diggings of what appeared to be made
by a semi large animal. Most of the
afternoon was raining so that I am unable
to do work as should like. The mornings are
spent in preparing specimens, and the afternoons
in resetting traps and when raining the latter
is impossible.

This afternoon at 12:30, 1 sergeant, 4 soldiers,
2 captives, and 1 Dyak returned from Terrink's party
in the Grand Valley.

The most important thing is probably
the activity of Gale today. It made its
first parachute delivery to Captain Terrink,
and landed successfully on the new lake to
deliver supplies to van Arden. He was there
with his entire party in good spirits and
good health.

Aug 7 Lake Habbema, Netherlands New Guinea 3225m.

197 mouse traps, 191 rat traps, 11 steel traps. —
13 Stenomys, 1 Rattus, 1 Phascogale, the
Pseudochirus was brought in alive July 25 by a captive.

This morning and early afternoon I prepared
specimens. The late afternoon I rested for
today in Sunday.

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Aug 8 Lake Habbema, Netherlands New Guinea, 3225m.

197 mouse traps, 191 rat traps, 11 steel traps.

6 Stenomys, 1 Pogonomys, 1 Pseudohydromys,
2 Phascogale.

This morning I attended traps and prepared specimens. This afternoon I set out 12 steel traps along the runway in heavy mossy forest. The exact locality is best shown on the small accompanying map. They are in or near a heavy forest, 1 kilometer North East of camp at the head of a grassy bog of the mossy Grass Valley. 8 traps were set in the heavy mossy forest itself, the other 4 on the edge of the heavy grassy bog below the forest.



Aug 9 Lake Habbema, Netherlands New Guinea, 3225m

197 mouse traps, 191 rat traps, 23 steel traps -

8 Stenomys, 1 Rattus, 1 Phascogale was shot by hand.

This morning I attended traps and prepared specimens. This afternoon I reset 95 rat traps. They were taken from the grassy valley north east of camp and set along the lake shore edge, beginning in the middle (edge of lake) of the grassy valley on the western shore of the bay and following the shore line around the point of the bay and north west along the lake shore to a point about half way to the outlet. The traps were set in runways along the heavier grass, which is present about the lake edge.



Aug 10 Lake Habbema, Netherlands New Guinea. 3125

197 more traps, 190 rat traps, 23 steel traps. -
8 Stromys, 2 Rattus, 1 Pseudochinus. The skull
of the Pseudochinus was brought in yesterday
by Dr. Rand, 1 bird

This morning I prepared specimens. This
afternoon I went across the bay of the falls
and into the heavier forest there. The
purpose of this excursion was to
look for suitable trapping locality. The
forest margin is well as the mossy
forest itself should yield things new
and interesting.

This evening I went out hunting with
flashlight. With the moon we followed along
the eastern bay shore and north west lake shore
to 1/2 the distance to the inlet. I saw 1 Rattus and
one Stromys along the lake shore. It was
a clear cold night with steam coming off
of the lake and a full moon above. It is not
the best type of night for this type
of hunting.

Aug 11 Lake Habbema, Netherlands New Guinea. 3225m.

197 more traps, 190 rat traps, 23 steel traps -
3 Stromys, 1 Rattus, 2 Phascogales (2 sp.). 3 birds.

This morning prepared specimens and attached
traps. An adult ♂ Endeomys was brought in
by one of the Dyaks. (see genus notes) This afternoon
I set the more traps, changing them from the
northern bay shore to the heavier forest
to the west of the bay.



In this rather
localized forest there is
a heavy high scrub growth
though which are scattered
a few tall trees. Moss covers
the ground, the trunks and lower
limbs of the bush with the
exception of a few spots where
for an open ground moss does

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not seem to flourish as well. The general route of the trap line is up the ridge on a northerly direction, swinging to the east westward down the slope then along the border of the forest and finally out into the grassy valley with two ferns.

Aug 12 Lake Habbema, Netherlands New Guinea, 3225m.

~~177~~ 185 mouse traps, 190 rat traps, 23 stake traps -
15 Stenomys (on Sept. 13), 1 Rattus, 2 Pogonomys,
1 Hydromys, 1 Pseudochinus. The Eutamias, (1 bird)
was brought in yesterday by a Dyak wood cutter.

Today was spent in preparing specimens and taking care of them. Set one stake trap out in the forest along the mouse trap line. Brought in the 9 stake traps set along the north east lake shore. This evening I went hunting by flash light along the crest of the ridge which runs north of camp. Traveled along slowly for a distance of about 1 kilometer and returned. I saw no animals. The two Dyaks who were also out hunting by flashlight in the grassy valley. They reported having seen 1 "klu" (rat).

Aug 13. Lake Habbema, Netherlands New Guinea, 3225m.

185 mouse traps, 190 rat traps 15 stake traps -
4 Stenomys, 1 Rattus, 2 Pogonomys, Phascogale, 3 birds.

This morning radio signals interrupted my regular morning work of attending traps and preparing specimens. I did manage to accomplish something, mounted specimens and checked off the stake traps (13) set north east of camp. This afternoon I set out 9 stake traps, 2 on the top of stacks of hay, and 7 along the fire of small traps through the moss forest. They were set in the ravine of which appeared to be made by some large animal.

Aug 14 Lake Habbema, Netherlands New Guinea, 3225m.

185 mouse traps, 190 rat traps, 22 stake traps -
3 Stenomys, 2 Pogonomys (2 sp), 1 Phascogale, 1 Pseudochinus

2 Hydromys, 3 birds.

This morning prepared specimens. This afternoon being rainy and Sunday gave the collectors a rest. I went across the bog with Rand to collect a bird of pondicium nest and at the same time to look over the lower edge of the forest in that vicinity as a possible locality for a trap line.

Aug 15 Lake Halberna, Netherlands New Guinea 3225m.

185 mouse traps, 190 rat traps, 22 stick traps -

3 Rattus, 5 Stenomys, 1 bird.

This morning at 7:00 Ford, Brass, Isa. and Gils left in search of the systematic collecting locality on the north east slope of Mt. Wilhelmina. With them went a sergeant, 3 soldiers, 1 cook, 3 porters 10 Dyaks, and 6 collectors. They return on returning tomorrow.

This morning I prepared specimens a mouse. This afternoon spent in and about the grassy valley following Stenomys runways and looking for their nests. The evening we went hunting by flash light saw nothing. This afternoon the two Dyak collectors brought in 2 Eudromicia which they had caught during their afternoon hunt through the open forest south east of camp.

Aug 16 Lake Halberna, Netherlands New Guinea 3225m.

185 mouse traps, 190 rat traps, 22 stick traps -

2 Stenomys, 1 Hydromys. The Eudromicia were caught yesterday by my two Dyak collectors. 1 bird.

This morning I prepared specimens. The two Dyaks went hunting but returned without having seen a mouse. This afternoon I went to the outlet of the lake. Spent several hours in this vicinity looking for suitable spots to set my traps. It would seem that there is suitable spot for 100 rat traps along the marshy border and low brushy hill slope. The two Dyaks

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returned with a small falcon from this day
afternoon looking for mammals.

Aug 17 Lake Habbema, Netherlands New Guinea 3225 m.

185 mouse traps, 190 rat traps, 22 steel traps. —

1 Dasyurus, 2 Stomoxys, 2 birds

This morning prepared the Dasyurus and collected the line of 95 ^{rat} traps and 1 steel trap which were set from the head of the grassy valley over the open to the west. (north of camp). This afternoon we reset the traps beginning along the north south side of the outlet stream and following it along for $\frac{1}{2}$ kilometer setting traps along the high grass and rocks which border this sluggish stream. Half of the traps were set along this stream the other half on the hill slope to the south of the stream. The line passes through the following types of habitat: thick grass; open land with very low grass undergrowth; thick land and scrub tree in a moist canyon, moss abundant; over a dry brushy ridge with moss and grass; along a dry brushy road with scattered brush clumps, grass, and moss about brushy areas.

The patrol of 25 men including Bond, Brown, Fox, Philo, etc. did not return yesterday as per schedule so this morning another patrol of 3 soldiers, 1 Dyak, 2 conductors were sent in search and to deliver food to them. This afternoon both parties returned having successfully located a satisfactory collecting zone on the north north east slope of Wilhemina top. It is some 9 km. distant from our camp here. They brought back with them a portion of a Mallomya skull and reported having seen runways of others and also large runways of animals which appear to be large rats.

Aug 18 Lake Habbema, Netherlands New Guinea 3225 m.

185 mouse traps, 190 rat traps, 21 steel traps —

1 Pseudochirus, 2 Phascogale, 1 Rattus,
6 Hydromys, 1 Pogonomys (not saved), 1 Peromyscus
13 Stenomys (2 not saved).

The morning my daily routine of collecting was disturbed by radio seedhats and the arrival of the plane (Bula) with half of next month's provision and 2 passengers (1 Dyak, 1 convict). Late morning prepared a few specimens and this afternoon spent the entire time in preparation and packing.

Aug 19 Lake Habbema, Netherlands New Guinea 3225 m.

185 mouse traps, 190 rat traps, 21 stick traps.

1 Pogonomys, 1 Phascogale, 1 Hydromys,
10 Stenomys.

This morning I tended traps and prepared specimens. This afternoon reset the mouse traps remaining then from the forest west of the bay to along the north west lake shore. The lake begins about mid way between the bay point and the outlet and continues west along the lake margin to the outlet. About 150 of the bait were set, the remainder will be set tomorrow.

The Bula with its crew remained here last night. This morning just past early afternoon they made 2 flights to the bay, river of the Grand Valley bringing back Ferris and party of about 34 soldiers, Dyaks, captain, etc! They all returned in good spirits and good health.

Aug 20 Lake Habbema, Netherlands New Guinea 3225 m.

150 mouse traps, 190 rat traps, 21 stick traps.

1 Phascogale, 2 Hydromys, 2 Pogonomys (one kept alive),
2 Pseudochirus, 10 Stenomys.

The morning tended traps and prepared specimens. This afternoon set at the remainder of the 192 traps along the north side of the outlet stream $\frac{1}{2}$ mile down from the north. About 25 of the traps

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were set along the border of the grass and brush some 50-100 yd. north of the stream.

This morning (10:00) the Guba left for the new lake, which van Arden had recently cut for its arrival. From the lake the party was transported to Burwood camp (18 minutes flight). This concludes the opening of the trail through from the Idubug to Habema a distance estimated to be 16 days of travel. A radio from van Arden today stated that it was 3 days from meeting place in Grand Valley to the new lake.

Aug. 21 Lake Habema, Netherlands New Guinea 3225 m.

192 mouse traps, 190 rat traps, 21 steel traps —
2 Hydromys, 2 Rattus, 1 Pogonomys (other specimen brought in yesterday), 10 Stenomys, 2 Pseudochirus.

This morning and early afternoon tended traps and prepared specimens. Late afternoon went across bog and looked about a grass fire which has been burning for the past 3 or 4 hours. The fire is in the upper part of the valley burning along the heavy grass - tree fern edge of the small stream, and at the upper edge of the grass where it borders the brushy outer forest. There were no mammals and birds about the fire. I made several trails in front of the fire to see if the animal life was moving before it but apparently it was not for no rats etc. were seen although there were numerous runways in the region.

Aug. 22 Lake Habema, Netherland New Guinea 3225 m.

192 mouse traps, 190 rat traps, 21 steel traps —
3 Plascogale, 2 Hydromys, 1 Pogonomys,
(1 Pseudochirus skull only, said up), 3 Stenomys.

This morning tended traps and prepared specimens. This afternoon reset 96 rat traps.

The traps were taken up from the lake shore beginning from a point on the west central bay shore and continuing around the bay point and along with lake shore to mid point ^{of} between bay point and outlet. The traps were set in the mossy forest and bordering heavy brush areas. The spot of forest in which the traps are set is situated about 1 kilometer north north east of camp. (same spot in which I had previously set 13 traps for *Zapus* etc.). The line begins in the bottom of the gorge in a heavy mossy brush forest and continues north east along the ridge of lime stone strike lake. Throughout a heavy mossy brush forest for about 200 yd. From there went down on a thick worn slope of a large sink hole and turned in a westerly direction proceeding over the rim and on in a south east direction through heavy thick brush. Throughout the entire region there is a ground cover of moss and heavy moss cover on all lower limbs, branches, trunks, and fallen timber. The line ends on the brush point 200 meters south west of its beginning.

Aug. 23 Lake Habbema, Netherlands New Guinea 3225 m.
 195 mouse traps, 190 rat traps, 22 steel traps -
 8 *Stenomys*, 2 *Phascogale*, 1 *Pogonomys*,
 1 *Hydromys*, 1 bird

This morning tended traps. This afternoon reset 8 steel traps removing them from the forest across the bay to the forest in which yesterday's rat traps were set.

Calculated the weight and carrier loads for moving to the next camp below Wilhelmina Top.

Traps

80 K.

4 carriers

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Collecting boxes (2)	40 K.	2 carriers.
Personal equipment	20 K.	1 "

Aug 24 Lake Habbema, Netherlands New Guinea, 3225m.

195 mouse traps, 191 rat traps, 22 steel traps. — 3 Pseudochinus (one juv. in pond), 6 Stenomys, 3 Plascogale, 2 Hydromys, 1 Pogonomys (alive).

This morning and early afternoon prepared specimens and checked traps as usual. Late afternoon went through the forest west of the bay looking for suitable trapping localities. This forest does not look as productive as far as mammals as covered as that patch of forest N.E. of camp where I now have 96 traps set.

The afternoon Tox. returned with the patrol (10 ± men) from the ^{highest} valley N.E. of camp. He went down to 2500 m. and the upper edge of papuleta. He reports enthusiastically an excellent collecting region in the musy forest.

Aug 25 Lake Habbema, Netherlands New Guinea, 3225m.

195 mouse traps, 191 rat traps, 22 steel traps, — 5 Stenomys, 1 Pogonomys (other specimen brought in yesterday), 1 Rattus, 1 Hydromys.

This morning checked traps and prepared specimens. This afternoon remained in camp the rain not permitting field work.

This afternoon the camp has been humming in spite of the rain for tomorrow the first group of soldiers, Dyaks, etc. go to establish the Willems camp. Rand is going up tomorrow with his collectors and a cook to establish or arrange the establishing of camp.

Aug 26 Lake Habbema, Netherlands New Guinea 3225m.

195 mouse traps, 191 rat traps, 22 steel traps — 2 Pseudochinus (one a juv. from pond of adult ♀), 1 Plascogale, 1 Rattus, 3 Stenomys.

This morning checked traps and prepared

specimens. This afternoon walked along the grassy valley ~~westward~~ eastward to within $\frac{1}{2}$ mile of the brink of the valley where it breaks rapidly off to the east forest canyon. The region does not long from that ~~to~~ about the lake the grassy valley with tree ferns along the ~~the~~ stream and a swampy forest on the higher ground.

This morning (7.30) Road and party left this morning to establish the Wilhelmina camp. The group consisted of the following Dr. Road, Capt. Tenisk, 2 collectors, 1 cook, 22 Dyaks, 14 soldiers, 1 sergeant, 11 convicts. Total 53 men.

Aug 27 Lake Habbema, Netherlands New Guinea 3225m.

195 mouse traps, 191 rat traps, 22 steel traps.

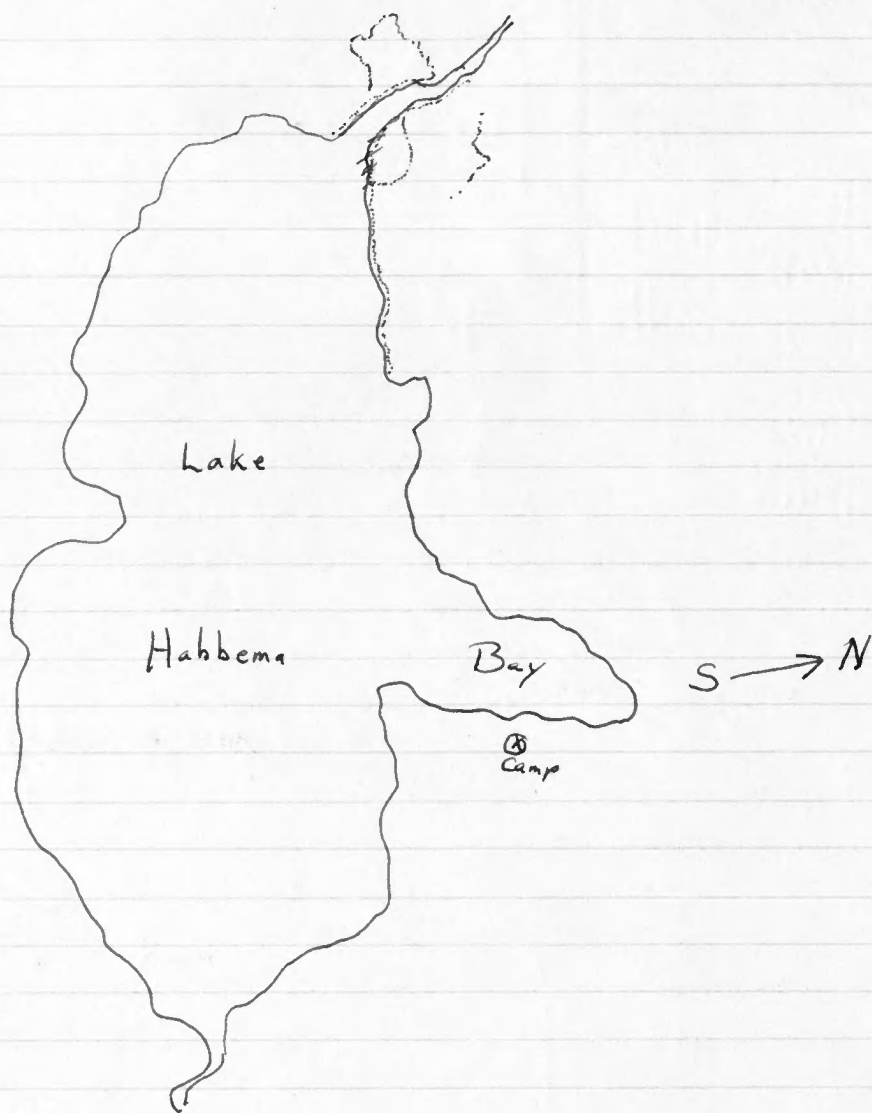
3 Hydromys, 5 Stenomys

This morning took traps and prepared specimens as usual. This afternoon explored the grassy ^{banked} meandering stream below the outlet rapids. The signs (mounds) were not as common as I had expected. They appeared to be Stenomys and the small Pharagam. The signs were not different so as to warrant a change of traps to that region.

This afternoon 11 natives came into camp 3 men and 8 boys. (I did not see them). They accepted gifts and gave in return a few sweet potatoes. They were very friendly, examined camp and returned to the forest. It was also reported by radio today that natives had visited the Blumberg camp bring pigs and cuscus for which they received a bit of tobacco. That shows a lack of understanding of native or bad judgement on the part of the man in charge, van Dijk.

Aug 28 Lake Habbema, Netherlands New Guinea 3225m.

195 mouse traps, 191 rat traps, 22 steel traps -



Map of Lake Habbema
indicating other trap lines.

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1 Pseudoechis, 1 Phascogale, 1 Hydromys, 4 Stenomys
(1 specimen not prepared)

The morning prepared specimens. This afternoon remained in camp recovering from a loss of vision. Yesterday late afternoon I partook of tea and bread as usual. The cook however had made a new kind of bread which he called grodan. This I am eating it, Kala, Brass, Dick and myself became ill. It was not until this morning that we learned that he had mixed desire with the flour, 5% of seed. It had been included in the bag of flour "to keep out the insects" by Exon his baker. At present we were all ill, not completely recovered, from the effects of a fat poison in our bread.

This afternoon two native men came within 40 ft of camp talked and greeted us in a friendly way. They were by no means shy indicating their desire of amirion by gesticulating in the bid of an old tin can. Yesterday the natives were given several. They were given each one which they admired greatly especially the little stored which held it upright. They indicated their pleasure by snapping their pein gods with their fingers.

Aug. 29 Lake Hablema, Netherlands New Guinea 3225 m.

195 mouse traps, 191 rat traps, 22 steel traps.

1 Hydromys.

This morning "siddled" about camp doing odd jobs, etc. This morning 7 natives, 1 small girl, 6 men, stayed near camp. Two of the men came in. They had 3 pigs one of which we bought for 10 canis shells (100). It's a small pig, 2-3 lbs, but never the less it will give us fresh meat for supper. They were the usual type of native with ^{flat} ~~green~~ faces, pein gods, ^{traded} ~~rotan~~ arm bands, coarsely made hair net, small mud bag for tobacco etc., and bow with 8-14 arrows which made up their gear. One man carried

a spear some 10ft in length of a straight piece of (1") hardwood sharpened to more or less of a point at the end. It had a split hook about 14" from the end which indicated divided the blade from the shaft. The people were in all appearance quite primitive with few personal goods except the bare essentials to their life.

This afternoon I went in search of Endornis through the swampy forest in the grassy valley to the N.E. of camp. Although many ^{dead} trees were cut or pushed over ^{fallen} in fallen spots and though moss clumps were found. Two empty nests were found which quite possibly belonged to said Endornis.

This morning the second group of carriers left of the Willebrord camp. which included Dr. Trosper, his 2 collectors, his cook, ^{1 Band collector,} 12 Dyaks, 6 convicts, 1 Sargent, 5 soldiers. This afternoon Cyrtaria Ternak and his group of convicts, soldiers, and Dyaks returned from the same camp. Dr. Rand remained behind with his 2 collectors, cook, 4? convicts, 2? soldiers.

Aug 30 Lake Halbera, Netherlands New Guinea 3225m.

195 mouse traps, 191 rat traps, 22 stick traps -
1 Mallomys, 2 Stenomys.

This morning tried traps and perjured the giant rat. This afternoon stayed in camp because of the dull threatening weather.

This afternoon 11 natives came into camp. We purchased part of their bows and arrows which would indicate that they were not only friendly toward us but trusting as well. Their arrows contained remnants of what appeared to be Dactylopsax (4?), Drepanis, and some long rat.

Aug 31 Lake Halbera, Netherlands New Guinea 3225m.

195 mouse traps, 191 rat traps, 22 stick traps -
4 Stenomys.

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This morning tend of traps, prepared specimens, and checked in the 93 rat traps, and 194 mouse traps and 2 steel traps which were brought in by my collectors from the lake shore and about the outlet stream. This afternoon packed food and mammal skins in preparation for their shipment to Hollandia.

This morning another friendly visit of the 11 natives which came in camp yesterday evening. This afternoon another group of 12+ natives came into camp to trade about potatoes for canine skulls. Unfortunately their prices were too high and their quantity too small to do much trading. Did however buy a few potatoes. The demand trade here is canine skulls. They have little desire for beads or tobacco. Mirrors are also good trade and although paid of salt a chunk gets only a small bit of ~~potatoes~~ potatoes.

Sept 1 Lake Habbema, Netherlands New Guinea 3225 m.

96 rat traps, 22 steel traps — 2 Stenomys

This morning collected the rat traps and 13? steel traps from the many forest 1 kilometer WNE of camp. Spent the remainder packing equipment for the trip to the Wilhelmina camp.

Tomorrow * 3 sacks of traps, 1 collecting box, and one pack of adobe ends are going up.

The day has been the wettest one in the history of our camp. Overcast and intermittent showers throughout the day.

The signal for Galas flight to Habbema today was cancelled because of the weather.

Hord returned with cook & collector from the upper camp. Came down for the proposed observation trip over Wilhelmina trip by air. Trip 7½ - 8 hrs.

Sept. 2 Lake Habbema, Netherlands New Guinea 3225 m.

9 steel traps, — 0 birds.

This morning the Gula arrived with 2700 lb. of man, gear, and food for the military party (see page 39a). Specimens were returned to Hillauda. Afternoon spent on the lake with Road looking for white-winged ducks. Numbers (50±) were seen but were unable to get within range for a shot.

Sept. 3 Lake Habbema, Netherlands New Guinea 3225 m.

9 steel traps — 1 *Pseudochinus*.

The unsettled weather prevented the Gula from making its trip to Habbema today. Heavy clouds this morning and this afternoon intermittent showers. Packed equipment, developed pictures today. Most of the time however was spent in "piddling."

Sept. 4 Lake Habbema, Netherlands New Guinea 3225 m.

9 steel traps — 0

This morning the Gula came in with its provisions and gear for the American party. The presence of the Gula in camp is certainly stimulating not only for the European but for the other members of the expedition. Indonesian and chaplains need a maximum of this times.

A short observation trap (3/4 hr.) was taken over the vicinity of Willhelms. N.A. wanted to look for a suitable route of ascent of the mt. With a party as large as we have an easy ascent will be essential. The best and most logical route at present seems to be along the east ridge. This route appears to be more of a scramble rather than the rock climb which I had expected.

Gula left for Hillauda soon after

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11:00 a.m. a.m.

There were some 20 or 30 natives in camp this morning anxious to trade anything for the small conical shells. Large conical shells, matches, beads, salt, etc. bring very little in exchange. We purchased bows, arrows, can, for bed dress, awnings, new boxes, game girdles, spears, and other "miscellaneous". They were very friendly and apparently without fear of the airplane as it came and left.

The afternoon was spent in packing provisions for the top camp. (4 loads tomorrow, 5 loads the 7th, and 5 loads the 13th). There are our monthly provisions for the camp also. (See Rando notes for list of materials) + Also packed up my own goods for storage or shipment (2 loads tomorrow, 1 load the 7th).

Sept 5 7 km NE Wilhelmina Top, Netherlands New Guinea 3540 m

9 set stake traps, 1 meat stake trap - left with Mr. Chli at Habbema to attend during his duration as radio operator in that camp.

This morning (7:40) we left for the base camp at the base of Wilhelmina Top. The camp is some eight hours distant from Habbema, 2/3 of it traveled the first day is the second day. A small, mid-way camp has been constructed which has blankets, and a few provisions for the traveling party. At this camp there were 5 men, including soldiers and convicts. We reached the mid-way camp by noon or a little after and the last of our party was in by 2:00 (see Rando notes for make in party). Near mid-way camp a falcon nest was discovered which Rando wanted to observe so I proceeded on to the upper camp in his place. He had previously planned to come straight through with R.A. collecting boy and Sney the cook.

Arrived in camp at 5:00 finding Fox
his cook, collector, 2 friends collectors, 1 sergeant,
5 soldiers, 2 convicts all well and apparently
happy. They seemed to be a bit
uncomfortable because of the cold
but I hope they will soon get over that.
The camp is in good order. There are
soldiers and convicts barracks, fly with
ends brushed in for xyl dyak collectors,
peruperation tent, dining tent, store
tent, Road and R.A. tent, Fox's tent, and
frames and plans for kitchen, cook's tent,
and Brassard and my tent. Walks have constructed
between the buildings so that we can move
about without getting our feet wet feet.
Ground is being made: drainage ditches constructed,
etc. In short it is a very well
built camp.

Sept 6 7km NE Wilhelmina Exp. Netherlands New Guinea 3600m

No traps

This morning the transport came in,
Road, Archbold, Bruce, Finnish, collectors, cook,
Dyaks, soldiers, convicts, etc. They were in
camp by 11:45 and the carriers with
soldiers ready to return to the Between
Camp for the night.

The day has been spent in settling
camps, the kitchen tent and fly and Brassard
and my tent were put up. The Dyak collectors
have made beds in their shelter of poles
and grass. Stores and collecting equipment
have been arranged. Kicks put up. Etc.
It has been a rather busy day with
rain in the morning and again in
the afternoon.

Sept 7 7km NE Wilhelmina Exp. Netherlands New Guinea 3600ft.

Today has been a very wet one, rain
and mist almost the entire day time. During

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the slack periods managed to put out two lines of rat traps, one of 149 traps along the base of the rock cliff. It is in a variety of habitats within this region of the cliff base, - heavy brushy stream side, ^{long stemmed} grass stream side and slope, brushy slopes, mossy forest slopes, base of cliffs with rock crevices, grassy gentle beneath cliff, etc. The other line of 38 (total of 187 traps) rat traps were set along the grassy ^{and brushy} reverse ^{at the} ~~head~~ ^{head} of head of the camp valley. Here there are small runways and it was in these that the traps were set.

The count today which checked with previous counts of the traps in camp is -
 Rat traps 187, Mouse traps 194, Steel traps 15
 There will be more which are scheduled to arrive with tomorrow transport.

Sept 8 2 km NE Wilhelmina Top, Netherlands New Guinea 5600m.
 187 Rat traps - 1 Pseudohydromys, 1 Hydromys,
 1 Rattus, 9 Stromys (3 discarded). 1 One Stromys
 shot by collector discarded.

This morning tended traps and while Marcus was left to prepare the specimens the two Dyaks and I set out the small mouse traps. The line begins near camp and follows along the open brushy stream course South East up the canyon.

I set traps each for about 1/2 kilometer and then goes on to the side hill slope, through brushy regions, in open grass slopes and finally along the grassy base of a large limestone cliff. From the cliff base it goes down through the heavy moss covered brush and for a short way down the open grass canyon slope. The line goes to about 300 m higher than camp and passes through most of the conceivable habitats of the hill slope east of camp.

This morning the transport arrived

bringing with it food and equipment
including ~~12~~ 18 Stalk traps, 55 Rat traps
18 Mouse traps.

This afternoon Rand and I went
up ^{to} the saddle looking into the left
valley of the foot of M. W. The lower
slope (like the saddle) bordering the camp
valley are heavily wooded with a thick
growth of mossy forest with scattered small
trees. Near the top this is broken
with rock outcrops and open grassy
patches. A short distance from the
head end about 1/2 way to the saddle
Rand showed me the remains of two
deadfalls which had been built by
the Papuans. These consisted of
a runway of sticks some 1 yd in length
and about 6 inches wide placed so as to
include ^{a part of} what had previously been
a large natural runway. At the end
were several logs about 4 in in diameter
which had ~~not~~ probably been used
as the falling log. I intend to place
some stalk traps in this region.

Sept 9 7 km. N.E. Willemina Top, Athelrod New Guinea 3560 m.

187 rat traps, 194 mouse traps - 10 Stenomys.
This morning I set ~~traps~~ traps and set
6 stalk traps 1/2 km ^{SW} of camp near the
old P. genon deadfalls. Here there are large patches
of heavy bushy forest (mossy) with open
grass spaces between patches. It was in
runways ^{between} the patches that these
traps were ~~set~~ ^{set}. This afternoon set 4
stalk on the ridge N.E. of camp. Here there
are similar open grass regions between the
heavy bushy thickets with large runways
connecting the two or more.

This afternoon (4:00 P.M.) a group of 10 P.
Papuans came within 100 yd of camp and

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and made their night camp ~~at~~ beneath a rock cliff. The party includes 1 small girl, 3 boys, 1 youth and the rat man. They were not unfriendly to us of the men coming near camp and exchanging greetings and one even came into here a food parcel. Regardless of this they gave us to understand that we were to remain in our camp and they in this. They were puzzled with much the same look and look as ~~at~~ those seen about Hahona. They indicated by signs that they had been traveling for about the days and were to continue in a South West direction.

Sept 10 2 hrs Mc Williams Top, Netherlands New Guinea 3560^{ft}

187 rat traps, 194 mouse traps, + 10 steel traps -

5 Stenomys (discard).

This morning tended traps and set 2 more steel traps $\frac{1}{2}$ S.W. of camp (over the 4). This afternoon we rained so did no field work.

This morning a small transport (7-15 men) went to the upper camp with food and equipment for Archbell and Terrick. Archbell was unable to move up because of misunderstanding about currency for his personal equipment. He and Rand will go up tomorrow. This morning about 11:00 a large transport from Hahona came in with von Arden, Huls, Schreuder, Wijn Leonard carriers, soldiers, etc. They brought in provisions and equipment for their stay while they climbed Mt W.

About 7:30 PM the passengers broke camp and passed by camp "within 1.5" (A.L.P.), and up the hill to the north east. At their camp they left a smoldering fire and a few cut branches.

This afternoon set out 18 mouse traps and 5 rat traps in the heavy moss-bushy near east of the cliff. (100 yds SE of camp).

Sept 11 7 km NE Wilhelmina-Tops, Netherlands New Guinea 3560 m
192 rat traps, 212 mouse traps, 13 stick traps -
1 Rattus, 1 Pseudohydromys, 1 Mallomys,
4 Stenomys. 1 bird.

This morning tumbled traps and set 2 more stick traps on the ridge ~~at~~ $\frac{1}{2}$ km S W of camp. One of the traps previously set here had been sprung by a dog (dog was within $\frac{1}{2}$ m of trap). I have seen fresh tracks and droppings along the grassy trail and Archibald and Bruce both reported having heard the call from the ridge S W of camp. There are no pig signs but dog signs are relatively common.

This afternoon tumbled traps and prepared specimens.

This morning Archibald and Reed left with ~~the~~ the transport for the upper camp. Archibald took with him 50 rat traps and 6 stick traps as well as one of my collecting bags. I hope that he is successful with his trapping for the things about that camp should prove very interesting.

Sept 12 7 km NE Wilhelmina-tops, Netherlands New Guinea 3560 m.
192 rat traps, 212 mouse traps, 20 stick traps -
9 Stenomys, 1 Peromyscus, 1 Pogonomys. The Rattus was dug out of its nest.

This morning tumbled traps and prepared specimens. This afternoon went in search of new trapping localities about the edge and along the stream of the camp valley. Rain prevented an extended search.

The early afternoon Major Bruce left for the between camp with 2 dogs, 1 convict, 2 soldiers to collect botanical specimens in that region. He went reluctantly and only after a paper "gift" from Bruce. He seemed he denied all previous agreements or knowledge of them.

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Sept 13 7 am. Kc. Wilhelmina-top, Netherlands New Guinea 3560 m.

192 rat traps, 212 mouse traps, 20 stick traps. —

1 Pseudoechinos, 1 Pogonomys, 2 Stenomys.

This morning tended traps and prepared specimens. The afternoon was spent in looking over the west side of the camp valley for localities in which to set traps. The land where the grassy valley joins the forested slopes appears to be very rich, better than the forest itself on the grassy valley. Near the end of the valley on the west is some open forest region which may prove a valuable spot to set large (stick) traps for Thomomys gambelii campana thomomys thomomys.

About 9:30 the Guba came flying overhead and up to the camp above, circled it several times dropping the seed, fresh fruit, and radish seeds. Went then to Fabela, stayed there to deliver seed etc. and then back to Fellerde.

This afternoon while sitting looking for places to set traps we were surprised by natives and they themselves were apparently surprised. There were a group of eight, 4 men, 2 girls, 1 woman with child. They were "New" people going to a region east of the Balun. There were two pigs with the party one of which I endeavored to purchase with a string of beads. They refused to sell. I gave them several (2) beads and they in turn gave me 5 sweet potatoes. They continued along the trail at a rather rapid walking gait often looking back as if expecting us to attack.

They went to upper camp.

Sept 14 7 am. Kc. Wilhelmina-top, Netherlands New Guinea 3560 m.

192 rat traps, 212 mouse traps, 20 stick traps —

6 Stenomys, 1 Pseudodromys.

This morning tended traps and prepared specimens. This afternoon reset 151 rat traps and 18 mouse traps. They were removed from the head (west) of the camp valley where they were set along the rocky base of the cliff. The new line continues along the southern

part of the cliff, section not previously traced
in, and continues along the lower S.W.
edge of the camp valley for about $\frac{1}{2}$ the
distance of the valley and then it goes
up the hill slope for 50-100 m.

This morning a transport came
in from Hellem with food and supplies.

Took up ^{the} 36 rat traps which were
set about camp to send tomorrow to
the camp above.

Sept 15 7hr. N.E. Wilhelminatus, Netherlands New Guinea. 3560 m.

151 rat traps, 212 mouse traps, 20 stick traps -
1 Peromyscus, 1 Pogonomys, 1 Rattus, 17 Stenomys
(4 discarded) The Phascogale was captured yesterday by
one of my collecting boys.

The day spent in tending traps,
preparing specimens, and taking care of the
dry material.

At noon Meyer Dues returned from the
(Tison) Betuan camp with his two days
botanical collection.

A transport went up to the camp
above this morning and returned with
a note from Reed saying Archfield is
on the peak and will not come down until
after the 16th.

Sept 16 7hr. N.E. Wilhelminatus, Netherlands, New Guinea. 3560 m.

151 rat traps, 212 mouse traps, 20 stick traps -
1 Peromyscus, 1 Pogonomys, 1 Phascogale,
1 Caecronomys, 9 Stenomys (4 discarded).

This morning tended traps and prepared
specimens. This afternoon reset the mouse traps
(189) from the canyon N.E. of camp to the
N.E. side of the camp valley. That is in the open
sloped slope of the valley. There were numerous
small runways through the moss and grass of
the forest border and it is in these that
most of the traps are set.

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Sept. 17 7 km NE Willhelmina top, Netherlands New Guinea 3560 m.

151 rat traps, 207 mouse traps, 20 steel traps.
1 Eudromicia, 2 Rethus, 1 Dasyurus, 1 Pseudochinus,
18 Stenomys (2 discarded)

Spent the day checking traps and preparing specimens.

This morning (9:30?) Brass and two of his collectors moved up to the camp above. (At Scree Valley Camp) Note from Orrell says that he is having difficulty finding a good route to the top of Willhelmina. I hope that he will soon discover one.

Saw a group of 10 or 15 natives along the track leading from the base of camp rather toward the SE. They would have nothing to do with me except to hinder me away from their party. The party consisted of men and women both carrying large wooden bags of what appeared to be sweet potatoes. The men would not wear my salutation "Yes".

Sept 18 2 km E Mt. Willhelmina, Netherlands New Guinea 3800 m.

151 rat traps, 207 mouse traps, 20 steel traps
6 Stenomys, 1 Rogomys (from 7 km NE Willhelmina top)

This morning checked traps and prepared specimens, and packed my equipment to move to Scree Valley Camp.

At 10:00 AM left camp with my collecting boy Osang, 3 Dyak carriers (1 for Mitting), and 2 soldiers. We followed the Pagan path SE from camp past an unnamed lake and up on a saddle to Scree Valley and camp rising there at 2:30. The camp here is situated at the base of a small water fall at a narrow edge of timber line. Everyone here seemed well and happy especially Bend for today he obtained a new species of bird, the first from this camp.

At the camp below I left two collecting boys, Marcus and Jolong, with 151 rat traps, 287 mouse traps and 9 snake traps. They have instructions to tend them each morning and to prepare the mammals taken. Four days from today they are to move 1/2 of the 2 trap lines to a new locality and for each day following until ~~all~~ the entire traps have been changed. Marcus the Ambonese is in charge.

Today I brought up with me 11 snake traps and 1 rat trap which are to be set out tomorrow.

Sept 19 2 km E Mt. Wilhelmira Netherlands New Guinea 3800m.

The traps. This morning Reed and I went up the Scree Valley for about 1 kilometer. He was looking for birds and snail trails in particular. I was looking for mammal signs and a place to set the 11 snake traps. Small runways, ^{subtle} ~~fairly~~ ^{strong} ~~fairly~~ common in the region particularly along the borders of grass patches. About the base of the talus slides where the large boulders have piled up and things have been grown about by ~~grass~~ ^{weeds} and bush are larger runways which appear to be those of Mallomys. Small runways go ~~down~~ ^{up} through the bush areas bordering the large talus and seem to disappear in the open ~~open~~ ^{open} grassland. There are many refuges beneath these boulders and about these things can be found which apparently belongs to this animal. In the lower grassy areas there is a third type of runway, which seems to go indiscriminately through the grass. There are many small shallow burrows and mounds which have been dug up in these regions. These I believe are made by Peromyscus.

We traversed the heart of the

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and which had found yesterday. Pellets and
some of the shell or prints of were
saved. (To be examined later)

This afternoon I set out 11 stake traps
and 1 rat trap ~~at~~ east of camp ^{1/2 km.} in
and about the old large rock tethers.

Myr Dress & Scherck can go from the
camp down below the forest to help
Bress collect botanical specimens in this region
the latter to go on the patrol to W. top.

Sept. 20 2 km. C Mt. Wilhelmina, Netherlands New Guinea 3800m.

87 rat traps, 17 stake traps - 2 Stomoxys

This morning Archibald, Reed, Seebird,
Dr. Scherck and carriers left camp (7.56) in
search of a suitable route up Mt. Wilhelmina.

The route over the saddle, south of camp, on
to the south slope of the easterly ridge of
Mt. W. Archibald left with me his collecting
bag and traps which I set to me to
the best of my ability.

Reset traps and prepared specimens this
morning. This afternoon the two collectors
and myself reset the 84 rat traps and 6 stake traps.
The line begins 35 m. above the level of
camp and continues in a SSE direction up the
side of an open forest slope, through a grassy
saddle and onto the Wilhelmina ridge below
the precipitous rock wall. The latter region
was a very old talus slope which has become
overgrown with moss, grasses and bushes the grasses
however dominating. Through this grass there
are many remains of probably belonging to Stomoxys,
Perognathus, and Mallomys.

Morning I went down to the lower camp
19 skins and skulls of mammals collected by Archibald
during his stay at the camp.

Rads again the evening.

Oral pellet examination.

- #1 - 1 Mallomys juv. or infant (Very recent)
- #2 - 1 Mallomys ? (Very recent)
- #3 - 1 Mallomys sub-adult (Very recent)
- #4 - 1 Mallomys juv. (Very recent)
- #5 - 2 Peromyscus? (Recent) Material saved
- #6 - 1 Stenomys (Recent)
- #7 - 2 Stenomys (Old)
- #8 - 1 Stenomys (Old)
- #9 - 2 Stenomys (Old)
- #10 - 3 Stenomys (Old)
- #11 - 2 Stenomys (Old)
- #12 - 1 Mallomys juv. (Old)
- #13 - 1 Mallomys juv., 1 Stenomys (Old)
- #14 - 1 Peromyscus, 1 Stenomys (Old)

Here are parts of skulls which were saved. These were picked up about the roost and apparently a year or more old for the pellets had disintegrated, leaving the bones in a scattered heap. At one time it had apparently been used considerably, possibly as a nesting site.

A collector (one of Ponda) came in today with what he believed to be more pellets. These however proved to be dung of Mallomys and several partially decayed skulls. Part of the material (skulls) was saved.

Sept 21 2 pm. C. Mt. Wilhelm, Netherlands New Guinea, 3800 m.

87 rat traps, 17 steel traps - 1 Peromyscus, 3 Rattus, 7 Stenomys (2 discarded), 2 birds. Peromyscus taken by cook from wood bin.

This morning tended traps and prepared specimens. This afternoon finished up preparation. The heavy mist and rain from about 11:00 on prevented any field work this afternoon.

A transport of 4 Dyaks and 2 soldiers came up from the lower camp with food stuff.

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Sept 22 2 km. E Mt. Wilhelmina, Netherlands New Guinea 3800m.

87 rat traps, 17 stick traps - 1 Perognathus,
1 Stenomys, 3 Rattus.

This morning the boys tended the traps and I went down the valley to a rock which Buss had previously pointed out to me. This rock was one of a number of very large boulders which had come with the tephra into this valley but because of their size had not become overgrown with moss and grass as the smaller ones had. The particular rock was 10' x 5' x 5' in size and on edge resting on another boulder so that beneath it was a large dry protected area. Scattered about were a number of bones (see natural rock) which had apparently come from two or more sources. One from one of the 2nd dried pellets was found one containing 2 Stenomys and the other bird bones probably grouse. Several from remains on patches middle of Pipturus for among the latter were several pieces of pandanus roots and the remains of a very old fire. I attribute the larger mammals to this source. There are two other possibilities to account for this a part of the bone accumulation one being Dasyurus and the other being dog. There were a few old seats also the last of the room 1.5 x 4" which might be attributed to the former.

Prepared specimens during the late morning and early afternoon. The remainder of the day was spent in the tent because of heavy mist and rain.

Sept 23 2 km. E Mt. Wilhelmina, Netherlands New Guinea 3800m.

87 rat traps, 17 stick traps - 3 Rattus,
2 Stenomys.

This morning tended traps and prepared specimens. This afternoon took a short trip

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Sept. 24 2 km. E Mt. Wilhelmina, Netherlands New Guinea 3800m.

87 rat traps, 17 stick traps - 2 Rattus,

3 Stenomys

This morning tended traps and prepared specimens. This afternoon remained in camp because of the rain and mist.

The transport of 4 Dyaks and 2 convicts and 2 soldiers left at 7:00 for the party camped on the south slope of the mountain. A note from Ropd will come back with the soldiers (11:15) stated that they were moving their camp onto the west slope of the mountain.

This morning Dr. Pella came up with 1 Dyak and 1 soldier. He reported the following. - Small transports coming from Pabbera to the lower camp every other day. Carries load reduced from 24 to 16 kilos per man. All men in good health except for one convict at Pabbera who has malaria. Said convict will not work for several days.

Sept. 25 2 km. E Mt. Wilhelmina, Netherlands New Guinea 3800m.

87 rat traps, 17 stick traps - 1 Rattus

3 Stenomys

This morning tended traps ^(in rain) and prepared specimens. Thinking in the camp this afternoon because of the bad weather. Rained most of last night, all morning and on until about 5:00 this evening. Now the stars are out and the weather seems perfect. Hope it will stay that way for tomorrow. I want to move traps.

Sept. 26 2 km. E Mt. Wilhelmina, Netherlands New Guinea 3800m.

87 rat traps, 17 stick traps - 2 Rattus

2 Stenomys, 1 Loganomyx.

This morning the boys tended traps and Beans and I went up here to the record lake (4150m). This lake is

very small, situated in a depression at the ^{mountain} base of the north cliff face of Mt. Wilhelmina. We passed by two of Kramers old camps, one only a short (300 yd) above camp and the other about 1 kilometer from camp. The former was probably one made by the party "to the east" the other one of their main camps.

This morning during the few minutes of clear weather snow could be seen on the slopes of the mt. Most of the day however it has rained, clearing for a short while this late afternoon but soon clouding over and raining.

Sept 27 2 km. E Mt. Wilhelmina, Netherlands New Guinea 3800m.

87 rat traps, 17 stake traps - 1 Stenomys (second)
4 Rattus (discard), 1 Pogonomys, 1 Phascogale
1 Peromyscus.

This morning removed the traps (83 rat, 4 stake) from the north facing slope of the east ridge of Mt. Wilhelmina. They were reset again on the east slope of a hill west of camp. These traps were set in ~~various~~ varying habitats from the forest margin, long grass hill slope to brushy thickets.

This afternoon prepared specimens. Today has been the first good one during the past week. There was sun and shadow intermittently but no rain until about 5:00 this evening.

Sept 28 2 km. E Mt. Wilhelmina, Netherlands New Guinea 3800m.

84 rat traps, 17 stake traps - 1 Pseudochisina,
1 Pogonomys, 5 Stenomys.

Rebbed traps and prepared specimens this morning. This afternoon remained in camp because of bad weather.

This noon, Archbold, Reed, Ferrink, Shreder, 4 Dyaks, and 4 convicts returned

General Account

from Mt. Wilhelm. They have been about the south and west side of the mountain for the last 8 days looking for a route to the top. Due to bad weather (rainy frequently) and a ~~an~~ insufficient time they were unable to reach the summit or to find a suitable route to the top. Archibald brought in a portion of a Thalweg skull from the 'rat' camp (rock camp) on the other side.

Our planning to break camp during the next few days and move back to Habbona.

Sept. 2 km. E Mt. Wilhelm, Netherlands New Guinea 3800m.

8 traps, 17 stick traps - 1 Stromyx
1 Endromocia.

This morning brought in all traps and sent them with specimens, and some setting down to the camp below. 2½ carrier loads in second transport.

About 7:30 Archibald, Reed, Brass left with big rock baggage for ~~the~~ lower camp. Their plan is to remain there today and tomorrow if possible start toward Habbona. It is the question of carriers which may cause the delay for a day or two.

Tox left at 10:30 with the second transport to the lower camp.

Today we started abandoning this camp. It has been fun giving the Dyaks, soldiers, and convicts the surplus food and watching them gorge themselves. Soap, matches, and rope are also in great demand. Collected grass nest for Reed this afternoon.

Sept. 30 7 km NE Wilhelmintops, Netherlands New Guinea 3560m
No traps out.

Information concerning Marcus + Polanyi's results trapping here while I was at upper camp:

Number of specimens - 77 (See Catalogue page 35 and on)

Days set - 11 Sept 19, to and including 29

Traps - 9 steel, 151 rat, 207 mouse

Trap nights - 99 " 1661 " 2277 "

Total trap nights - 4037.

Number of traps ^{nights} per specimen 52 + ³⁹³⁸

This morning we, Captain Terwind and I, left the Sere Valley camp for this camp. It was the final clearing out of the camp, rebordering food stuff and other unnecessary gear being blown away specimens and equipment necessary for the continuation of the expedition.

Jan Arden and a transport left this morning from this camp toward Between Camps. (Jan Arden plans to go through to Habbema) They have with them my specimens (3 boxes) and traps as well as collecting equipment.

Today has been spent about this camp preparing for an early start toward Habbema.

Oct 1 Lake Habbema, Netherlands New Guinea 3225 m

The traps out.

This morning left the 3560 m. camp at 6:30 and arrived at Habbema about 12:00.

My 3 collecting boys, the cook and my equipment came in with the transport.

Carriers * 4 1/2 (about 4.5) - traps

" * 2 (" " 2 1/2 - collecting gear - specimens.

" * 1 - packing

" * 1 (about 6 P₂) - radio.

" * 2 - tents + flys.

" * 1 - patcher intervals.

There are three loads more of the upper camp which belong to the American party.

Two transports arrived here today, 1 from Between Camps and the other from the 3560 m. camp.

A transport of 20 carriers left today to remove material left.

General Account

Oct 2 Lake Habbema, Netherlands New Guinea 3225m

No traps.

Today was spent about camp drying specimens in Bunsen ovens and other odd jobs.

Persons in today from two tribes "Morip" and "Tisigam". Their word for rats including Strongs, Mlongs, Fuchs, and Sushches, and Pharusak is "Bit" or "Bik". Purchasing their sweet potatoes and informed them that we desired mammals. Hope they prove to be good collectors.

The last of the transports returned today from the upper camp with 1 carrier load of my equipment, 2 carrier loads of tent & flies for the American party. The other 17 carriers had military and Dutch equipment.

The Buba tried twice today to come in to Habbema. At each time we could hear the motor through the clouds but no plane appeared. Bad weather prevented them coming through. Why take the risk.

Oct 3 Lake Habbema, Netherlands New Guinea 3225m.

No traps.

Drying specimens and doing odd jobs about camp.

Today the Buba came in bringing 1/2 of the current month's food etc. It is the first time in the past three days that the weather has opened enough to let it in. After leaving the lake some 10 or 15 minutes we again saw and heard the plane. According to their report they had flown just a short stop and were had accumulated on the ship itself. Schuder, von Archa, Hala, and Cheli returned to Habbema with the plane.

Oct 4 Lake Habbema, Netherlands New Guinea 3225 m.

No traps.

Spent day about camp drying specimens.

Food is being collected material for groups. I am beginning to work where we are going to have all of the material which he is collecting. The preparations & stores that are nearly full and he is only started.

Guba had successful trip to Ikerbung today. Hope that tomorrow weather permits its flight here.

Oct 5 Lake Habbema, Netherlands New Guinea 3225 m.

No traps.

Today spent in packing specimens and collecting material for groups.

Today the Goba came in with police crew: Rodgers, Brown, Booth, & Beunder; and Dr. Hills. Dr. Hills reports all in order at Ikerbung camp, no sickness or malaria, and clean well kept camp. The Guba will remain here until the 8th. the crew of which will aid in collecting groups.

Today's radio from van Arden reports the river, ^{Ikerbung} very high; one of the terraces in in the water.

The Dyaks in news, led by the "capella" came to request to be sent home. They say that the weather is too cold and work too hard. There is probably something deeper than that behind their request. They were pacified by Capt. Terwind, Hills, Fox etc. I hope there will be satisfactory and lasting results.

Recall of Mr. O'Brien 27 days collecting here with I was at the upper camp. Tended traps from Sept. 6 to Oct. 2.

Traps. 10 steel

Days 27

270 — Traps night.

General Account

Specimens obtained - 0.

Oct 6 Lake Habbema, Netherlands New Guinea 3225m.

No traps.

Today was spent working on the guys. This morning and early afternoon taking pictures and developing them this evening. The pictures turned out quite well considering subjects and very poor lighting.

Natives were in camp this afternoon with sweet potatoes, avo, bananas and avocados, etc for sale. The cost of a small pile (about 2gt) was purchased for 1 comic shell. Did purchase a queer looking pipe the first of that sort of thing I had seen in the region. It was made much like an pipe except the bowl (inside) was much smaller, the stem was apparently a tubular piece of wood. There was a piece of what appeared to be animal gut covering the outer bowl and stem.

Oct. 7

Lake Habbema, Netherlands New Guinea 3225

No traps.

For the exception of odd jobs little has been done today (by me). The continual rain has prevented working outside and made the place a "wet hole" in general. Despite the rain and my bad humor managed to help Byers pack the food stuffs for the lower camp and also to develop two rolls of pictures.

A number of Papuans came in this afternoon. Purchased their potatoes and a few other nick-nacks they possessed.

Oct 8 Lake Habbema, Netherlands New Guinea, 3225m.

No traps.

Today has been a very busy one. This morning and early afternoon was spent

in making photographs of subjects for groups.
(See photographic catalogue) Late afternoon was spent
in packing my equipment for transport
to the camp below. Consists of the following -

$\frac{1}{2}$ carrier loads for traps.
2 " " of collecting equipment etc.
 $1\frac{1}{2}$ " " for radio.
1 " " " food (8 days)
 $\frac{1}{2}$ " " " tent.
 $1\frac{1}{2}$ " " " barong etc.

I shall have tomorrow providing
the Gula arrives in the morning. If
not I will have to remain here until it
comes in.

Gula with crew, Archbold, Flycatcher,
Fox's cook boy, Archbold's boy, specimens,
and part of the group, etc. left this
morning for Gallandia.

Transport, the first, with
Bross, Fox, and 30+ carriers, and
soldiers went to establish the 2800 meter
camp.

No repairs today in spite of the good
weather. As Sumpster they are all interested
in the construction of the lower camp.
Hope they prove useful in bringing in
specimens.

Oct 9 9 km NE Lake Habbema, Netherlands New Guinea 2800m.

No traps.

This morning Gula came in bringing Jensen,
Jacobs,

They were much interested in camp and its working. They
inspected the camp, had tea and returned. Fortunately
today was ideal for their visit. The heat
we have had for the past several weeks.

At 12:45 left Habbema for the
camp arriving here about 3:30. The trail
is NE of Habbema up a ridge from the
grassy valley and down into the ^{the} forest.

General Account

The camp itself is situated in the heart of what is ~~appears to be~~ the mangrove forest on the north facing slope of a tributary canyon of the grand valley. Tonight is being spent in a temporary camp near a papuan settlement (filled with natives). A permanent camp, being constructed some 110 yds to the SW. The forest is being cut and the floors for the tents and flys being built over the latter. It is going to be a pleasant compact camp when finished. All pandanus plants remain unharmed. They all each have an owner. This was quite apparent this morning according to Buss, when trouble arose from cutting a few roots of one of these valuable net trees. The trouble soon passed over when the owner(?) received a shell for the damage.

Oct. 10 Gen. McLeh Habema, Netherlands New Guinea 2800m
No traps.

Today has been spent in setting up camp. In the personal tents we have, the dining room fly, the collecting bags fly, the preparation tent, the military barrels gear all up. There remains the kitchen, the cook tent, stores tent, Teerika tent to put up.

There were about 50 natives in camp. A friendly lot over anxious to sell their sweet potatoes or bananas and watch the progress of camp building. A large quantity of sweet potatoes were purchased at 1 shell for 15 large potatoes. I have spent some time in trying to convince them that we were interested in "Bih" (rats) but to no avail. They did however bring in a mangy parrot for which we paid 1 shell ("We were roled").

This morning about 10:30 Road, Terim and transport arrived. They had 13 local carriers

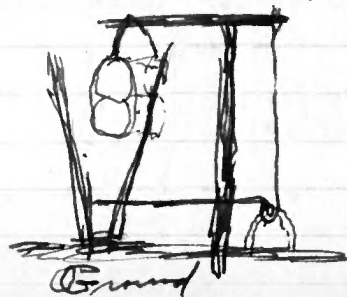
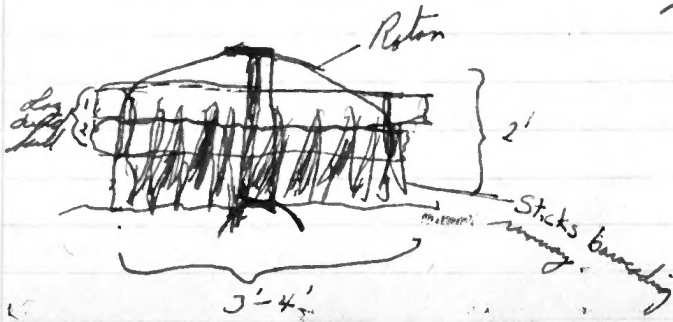
Oct 11 9 am 1968 Lake Gelbens, Netherlands New Guinea 2800 am.

The traps, ~~Phascoloph~~ set by collector and another brought in by natives.

Today was spent in setting traps 229 (3 holes) rat traps, 125 + mouse traps 10 + snake traps. The rat traps were set at the east and south east of camp in trails through the mossy forest. The mouse traps & snake traps are set in the south and south west of camp. This region is what Brass calls the mossy forest. It is composed of a moderately heavy growth of forest trees which on under will moss. The ground and the litter is also covered with moss. It is in large and small trails through this mossy cover that the traps are set.

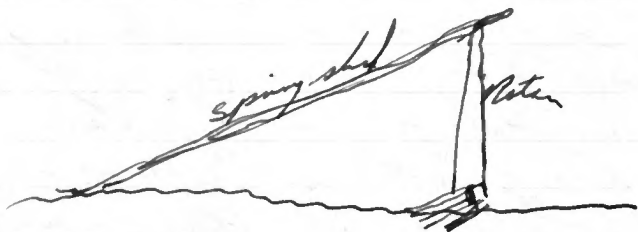
There are still a number of Papuans about camp bringing in sweet potatoes to sell, helping with the clearing etc. Manager has recruited the kind of ten natives to help him in his work, trapping, making camp, etc. They appear to be quite got at forest life and enter into the work readily. There were 16 today that come in with the transport each carrying approximately 20 kilograms.

During the setting of traps through the jungle today I saw 2 dead falls and 3 traps which appeared to be snares. The dead falls were similar in construction to those seen at the camp above. These however were ~~new~~ and were newly set (old traps) and so I could see the manner of operation.



General Account

The snares were not set so I am unable to describe the action of the net. In each case there appeared to be a built up hole in the earth with sticks. At the entrance there was a rotan mesh or catch of some kind which was kept taut by a stiff spring stick.



Oct. 12 9 km NE Lake Habbema, Netherlands New Guinea, 2800m.

125 mouse traps, 224 rat traps, 10 stake traps. -
3 Melomys (2 sp), 13 Stenomys (identified).

This morning prepared specimens. This afternoon set mouse traps and stake traps in the mossy forest south of camp.

Foley & transport came down from Habbema with 1 convict and 7 Papuans.

Ordered by radio 2000 skull traps and 1000 glass headed pins. Skull traps to be the ones used by Tate on last expedition and others to make up the 2000 beginning from #6501. (Information given over radio. See order #12)

Oct 13 9 km NE Lake Habbema, Netherlands New Guinea 2800m.

205 mouse traps, 224 rat traps, 19 stake traps. -
2 Melomys, 9 Stenomys.

This morning tended traps and prepared specimens. This afternoon set out 7 stake traps but due to rain was unable to do much in the way of field work.

The natives here for the most part live handily and happy. They have carried cargo from Habbema to our camp, brought in sweet potatoes, taro, bananas, 1 Phlogoth, 2 birds, some butterfly fish, help with the building of camp and in doing the little things need as

getting in fire wood etc. They have also
been a bother by getting in our way, but
the worst of it in this occasional
threats of life with beyond snow. The
first trouble came the day before I arrived
in camp when some food trees
were injured by falling timber for camp.
The trees situation was quieted with a
cover of soft snow. Then yesterday the
camp after being annoyed for some time
by a papuan tried to get rid of
him and finally did so in the rather
unpleasant way of pushing him off the
platform. The papuan rushed out
of camp and returned with low
down. His anger was appeased by David
and the sergeant who took the matter
to over and patched his soreness with
a sufficient quantity of "kopp".
Later in the day the guard was
instructed to clear the camp of natives
for the night. This was done in the
rather a rough manner of just
marching them out by force. The
result was that one of their party
returned with low and snow. The affair
was soon turned into a joke and
the affair passed over. Today
Rang and at rather long my things
collecting boys were threatened by a
native as they passed near their house.
There was no harm done but it was
a rather unpleasant situation. The native
which did the threatening this afternoon
acted as my guide. I hope that he may
be more peaceful tomorrow.

Oct 14 9 km NE Lake Habbema, Netherlands New Guinea 2800
205 mouse traps, 226 rat traps, 26 stake traps -
1 *Melomys*, 2 *Stenomys*, 3 birds. The two

General Account

Phascogale were shot by Brasser collecting boy.

This morning tended traps and prepared specimens. This afternoon looked over the region to the east of camp for a possible trapping locality. Along the ridge, to either side of the crest, should prove to be a profitable locality as well as interesting. No trouble with natives today. 17 of them carried food etc. from Habbema down.

Made 4 checks on the boiling point apparatus today the following.

9:00 AM	-	Boiling point	90.9	Air temp	12
10:30 AM	-	"	90.8	"	13
1:30 PM	-	"	90.8	"	10
4:45 PM	-	"	90.8	"	12

Yesterday's boiling point reading, 90.9 air temp 13. Archbold calculated the altitude as 2660 m. Something is wrong somewhere.

Oct 15 9 Am. Mc Lake Habbema, Netherlands New Guinea, 2800 m.

205 mouse traps, 226 rat traps, 24 snake traps. -

1 Lorentzimys, 3 Melomys, 1 Stenomys, 2 birds

Prepared specimens and tended traps this morning. This afternoon one of Brasser boys showed Road and I an owl roost. It contains a number of skeleton parts some of which I shall collect tomorrow. Went for a hunt along the ridge to the west of camp; followed it along for several kilometers and returned along the ridge to the north. No mammals were seen but much interesting country; forest for the most part with occasional openings along the ridge. The Dyakula arrived today with a large transport.

Oct 14 9 Am. Mc Lake Habbema, Netherlands New Guinea 2800 m

205 mouse traps, 226 rat traps, 26 snake traps -

1 Peromyscus, 3 Melomys, 3 Stenomys, 1 bird. The 3 Phascogale were not taken in traps. 2 were shot by Road and the other brought in by a native.

This morning tumbled traps and prepared specimens. This afternoon was spent in hunting and looking over the country along the ridge to the east of camp. Returned to the cave just this morning and collected pellets and skull remains. There are at least 7 sp. in the debris that I have not collected here.

Material identified in 5 old pellets. -

- | | |
|----------------|---|
| 1 [#] | 2 <u>Melomys</u> |
| 2 [#] | Portion of large mammal, possibly <u>Pseudochinus</u> . |
| 3 [#] | 1 <u>Pseudochinus</u> , 1 <u>Stenomys</u> |
| 4 [#] | 1 Bat (insectivorous), 2 <u>Melomys</u> (small sp.) |
| 5 [#] | 1 <u>Melomys</u> |

Oct. 17 9 am. N.E. Lake Habbema, Netherlands New Guinea 2800 m.

205 mouse traps, 226 rat traps, 26 stake traps -
 6 Stenomys, 3 Plasargale, 1 Uromys
 2 Melomys

This morning tumbled traps and prepared specimens. This afternoon reset 220 rat traps and set 5 stake traps along the ridge to the east of camp and in the canyon to the south.

Transport arrived today. No packages coming.

Dr. Falk and Capt. Terribil left this morning for the Habbema camp.

Oct. 18 9 am. N.E. Lake Habbema, Netherlands New Guinea 2800 m.

205 mouse traps, 220 rat traps, 29 stake traps -
 2 Plasargale, 1 Eudromicia, 1 Pogonomys,
 3 Stenomys (2 skinned), 4 Melomys. The Myotis

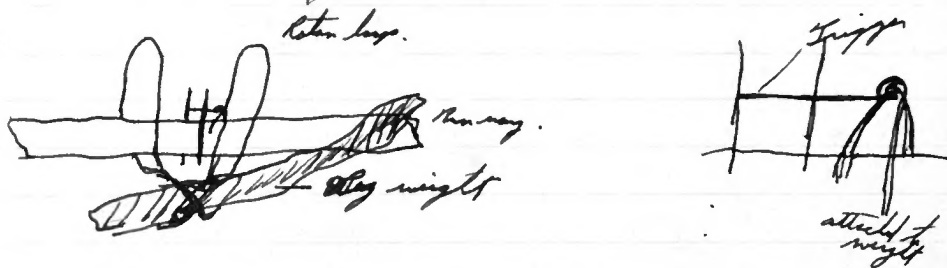
was taken yesterday evening by Dr. Foxgripus collecting by: 1 Plasargale was captured by my collecting boys.

This morning tumbled traps and prepared specimens. This afternoon took a short trip up the stream in search of a good place to set traps. Remained in camp late afternoon because of unpleasant weather.

Saw a new or rather - different type of rat trap this afternoon. It was a return

General Account

affair set on a budgeted log across the stream.



Oct 19 9hr. NE Lake Habbema, Netherlands New Guinea 2800m

205 mouse traps, 220 rat traps, 29 stake traps. -

2 *Pharomyscus*, 2 *Pogonomys*, 1 *Melomys*, 2 *Stenomys*.

One *Pharomyscus* #5187 was brought in by natives.

This morning tended traps and prepared specimens. This afternoon after the rain ceased took a short stroll up the trail. I have been given the duty of buying the native produce and tending the kitchen. This takes time but is a pleasant deviation from my regular duties.

This morning the small mouse traps and 24 of the stake traps were taken up. They were not set this afternoon because of bad weather. Weather not God permitting they will be set tomorrow.

Large transport arrived today from Habbema with reserve food and collecting equipment.

Oct 20 9hr. NE Lake Habbema, Netherlands New Guinea 2800m.

220 rat traps, 3 stake traps - 1 *Stenomys*

1 *Melomys*, 2 birds

This morning tended traps. One collector prepared the 2 specimens and reset rat traps. The Dutch collector (2) and I set 198 mouse traps and 24 stake traps. This afternoon took a hike down the trail for about 1 1/2 kilometers and then onto the ridge to the east. Trapping, that is signs, in that vicinity soon.

Captain Teerink returned from Habbema with transport. 14 natives carried today.

Oct 21 9 km N.E. Lake Habbema, Netherlands New Guinea 2800m.

198 mouse traps, 220 rat traps, 29 stick traps -
1 Phascogale, 4 Melomys (2 sp.), 13 Stenomys
(2 discarded) 3 birds. 1 Phascogale was shot by
my collecting boy.

This morning tended traps and prepared
specimens. This afternoon explored the area
to the north west of camp. There appears to
be some very interesting trapping regions along the
brushy edge of the stream gorge.

One thing which interested me was a
native bird blind. A small dome shape
set 3 ft high on six feet across. A perch
was built ~~up~~ out from the base, a small
stick some 1 1/2" in diameter, secured at
the outer end by a forked stick in the
ground. Located it within a foot and a
half of the end is a pile of bark things
which the bird uses to perch & creep into
nests built on his perch. In the end of
the perch in the fork of the stick is
a clump of moss of cat's paw - misapplied
arrows. In front of the perch is a
small pool of water which appears to be
used as a gutter
for the bird
to bath before
entering his
chamber



Oct 22 9 km N.E. Lake Habbema, Netherlands New Guinea 2800m.

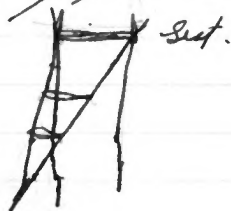
198 mouse traps, 220 rat traps, 29 stick traps -
1 Loxotomys, 1 Phascogale, 1 Melomys,
2 Stenomys. Of the 2 other Phascogales one was
shot by collecting boy, the other brought in by
a native.

This morning tended traps and prepared
specimens as usual. This afternoon hunted
down the ridge north west of camp.

Saw new type of hunting device a framework

General Account

of sticks lashed together with rotten or
jungle rope. At the top of the framework,
some 8 ft above the ground, the natives sit
waiting for birds or mammals.



It was constructed in rather
an open area in the bush
spaced the natural places to
wait for game.

A large transport arrived
today with supplies and equipment for
the reserve month (2). There were 7 natives
carrying today.

This evening the Dr. has a patient
unconscious with malaria.

Oct 23 9 km NE Lake Habbema, Netherlands New Guinea 2800m

198 mouse traps, 220 rat traps, 29 stick traps -

1 Anisomys, 2 Melomys, 1 bird, 1 Stenomys (discarded)

This morning tended traps and prepared
specimens. This afternoon reset 216 rat traps and
3 stick traps along the heavy forest and bank
of the ^{upper} stream stream bank. This evening
watched for bats. 4 individuals seen 3 flying in the
edge of the forest some 50 or 60 ft from the ground.
The other with rapid flying bat about the tree
traps. Last evening Bruce heard one cralling on the
roof of his tent and Rand has observed numerous (?)
insect wings about the flye. It is a strange place
for bats to feed.

Oct 24 9 km NE Lake Habbema, Netherlands New Guinea 2800m

198 mouse traps 216 rat traps, 29 stick traps.

1 Pseudochinus, 1 Hydromys, 1 Pogonomys, 1 Phascogale

2 Melomys, 3 Stenomys, 2 birds, 2 Phascogale

brought in by natives, 1 Phascogale shot by collector.

This morning and early afternoon tended
traps and prepared specimens. Late afternoon
explored the stream below camp as a possible
locality in which to set traps for water rats.

This morning a transport came in from Kabbena. There were 3 natives plus the Dyaks and soldiers carrying.

Oct 25 9 km. NE Lake Kabbena, Netherlands New Guinea 2800m.

198 mouse traps, 216 rat traps, 29 steel traps.
1 Phalanger?, 3 Stenomys, 1 Stenomys and 1 Melomys
brought in by natives. 1 Phascogale shot by
Torgans.

This morning tended traps and prepared specimens. This afternoon reset 193 mouse traps and 26 steel traps. This afternoon along the stream (at 2700 meters) below camp. The region is that of second growth vegetation on the hillsides along the stream banks. The vegetation is bushy with few scattered forest trees.

Oct 26 9 km. NE Lake Kabbena, Netherlands New Guinea 2800m.-2700m.

193 mouse traps, 216 rat traps, 17 steel traps.
1 Dorcopsis, 1 Pseudochirus, 1 Phascogale,
6 Melomys, 6 Stenomys, 1 white and 1 Phascogale
brought in by natives, 1 blue striped Phascogale
brought in by Dyak.

This morning tended traps and prepared specimens. This afternoon prepared specimens. Did not go into the field because of the rain. Had observed a living Phascogale today. See his field notes.

Reset 12 steel traps and 4 mouse traps along the river east of camp.

Oct 27 9 km. NE Lake Kabbena, Netherlands New Guinea 2800-2700m.

197 mouse traps, 216 rat traps, 29 steel traps.
1 Melomys, 2 Hydromys, 1 Pogonomys, 2 Stenomys,
a pair of white species of the Uromys, 2 birds. The
2 Phascogales were brought in by natives.

This morning tended traps and prepared specimens. This afternoon hunted south west of camp over the ridge and into the next canyon.

General Account

Saw nothing of particular interest in the way of mammals or ~~small~~ mammal signs. That of the region is that of Salma forest of a type in which I have already thrice trapped.

This evening watched for bats as usual between 6:25 and 6:55. None were seen. Only 2 nights during the past week have I seen one or 2 individuals flying high about the trees near the camp chiming.

Oct. 28 9 am. Mc Lake Hebbema, Netherlands New Guinea 2800m

197 mouse traps, 216 rat traps, 29 steel traps.
2 Lorentzimus, 2 Melomys, 4 Stenomys. The
1 Anisomys, 1 Phascogale, and 1 Pogonomys brought
in by Papuas.

This morning tended traps and prepared specimens. This afternoon looked over the lower ridge slope NW of camp. Here there is a large sava forest and long the stream or canyon there are garden groves. Between these two habitats there appears to be a good trapping area, one where I should get animals from both habitats and especially those that need both types of vegetation for their existence.

This afternoon Fox returned from a trip down the trail. He reports a medium size river and gardens within 2 hrs. from camp.

Oct. 29 2 pm Mc Lake Hebbema, Netherlands New Guinea 2800m.

197 mouse traps, 216 rat traps, 29 steel traps. -
1 Dasyurus, 2 Phascogale, 2 Melomys, 2 Stenomys,
1 Pogonomys. The Dasyurus #5272 shot yesterday afternoon
by collecting boys. The Peromyscus, 2 Phascogale
brought in by natives.

This morning I tried without success to repair the radio. This afternoon prepared specimens.

At noon today Brass, Terwind and party returned from a 5 day search of the next camp site. Brass reports a suitable site some 5 hrs below

at the upper edge of population.

A transport came in today of Dyke, Conch and self.

Weather: 6:00 to 15:00 clear; 15:00-17:00 overcast;
18:00-20:00 heavy rain.

Oct 30 9 km. NE Lake Habbema, Netherlands New Guinea 2800m

197 mouse traps, 216 rat traps, 29 steel traps.
2 Melomys, 1 Phacozal, 2 Stenomys, 1 Arvicola.
The species brought in the following:
6 Phacozal, 1 Melomys, 1 Stenomys,
1 Phalanger.

The collectors turned traps, measured and prepared ^{ready for} the specimens today. These in the catalogue followed by an "x" were brought in by collector. The numbers in the margin may be disregarded. They were made due to a misunderstanding with the head collector.

This morning at 6:55 I left with a small transport; 5 Dyke, 2 soldiers, 1 sergeant; for Habbema. The purpose was to bring up the small depowered radio and return with one of the AWA sets. This is old. Habbema is certainly a deserted place. Most of the huts are down and the general place is one of gradual ruin. There are a few soldiers remaining there as guard which who sort of rattle around in the camp as an old maid in a big house.

Returned here about 2:00; 2 hours coming trail 2h 30 min down; set up the radio and prepared messages. Feel rather weary although it has not been a hard days travel.

Weather: 6:00-12:00 large shifting clouds.

12:00-20:00 heavy rain.

Oct 31 9 km. NE Lake Habbema, Netherlands New Guinea 2800m

197 mouse traps, 216 rat traps, 29 steel traps.
1 Pogonomys, 3 Melomys, 1 Stenomys, 1 Phacozal.

General Account

1 Phaenocarpa #5305, and 1 Dactyloxena brought in by natives. 1 Phaenocarpa #5307 shot by collecting bag.

This morning tried traps, prepared specimens and tinkered with the radio motor generator. This afternoon went down the trail some 1/2 hr. distant and crossed the stream and upon the spur to the N.W. looked the region over with the idea of setting traps there. The area along the river, the stream side, appears to be the only thing to offer new and different beats. The spur is covered with a some forest much the same as those trapped in about the camp.

Weather 6:00 to 20:00 High overcast with occasional openings.

Nov 1 9 km. N.E. Lake Habbema, Netherlands New Guinea 2800 m.

197 mouse traps, 214 rat traps, 29 stick traps.

1 Pseudochinus, 2 Melomys, 1 Stromys. The natives brought in the following 2 Pseudochinus, 3 Rattus, 1 Phaenocarpa, 1 Peroryctes, 1 Pyromys, 1 Pogonomys, 1 Melomys. Dr. Freeman shot 1 Phaenocarpa #3317

Trapped traps this morning and the remainder of the day has been spent in camp preparing mammals and contacting the Oles motor. The bearing in the rock arm of the bush pointer would freeze when the motor became hot. Reversing of the bearing seems to have solved the difficulty.

This morning took up the rat traps and 3 stick traps. The Dyaks today wired the wooden top of the traps to the metal base of each trap.

The transport returned from the camp below which is at present being established. A note from Teerink states that the trip down had proved hard, 2 longer than expected because of high water in the river. The natives are friendly and at present busy in trying to establish a Papuan government about the camp; 2 chiefs + 2 police.

Nov 2 9 km. N.E. Lake Habbema, Netherlands New Guinea 2800 m.

197 mouse traps, 26 stick traps -

1 Pogonomys, 1 Melomys, 1 Stenomys
The natives brought in 1 Phascogale, 1 Cadomys.
2 Phascogale shot by Rooks collecting traps.

Today was spent for the most part trying to repair the radio. Up to date I have been unsuccessful but I hope that trouble will soon be discovered and repaired.

This morning began setting traps, set some 60 before the heavy rain drove us back to camp.

This morning the 2nd transport left for the camp below. 49 Pogonomys carried. If they continue to carry in such good numbers our belongings will soon be in the camp. According to Terin's report 80 natives (carrier boys) carried from Habbema to this camp.

Weather 6:00 - 8:00 overcast

8:00 - 10:00 broken overcast with shifting squalls.

10:00 - 16:00 overcast, rain.

16:00 - 20:00 overcast with occasional squalls.

Nov. 3 9 km. Mc Lake Habbema, Netherlands New Guinea 2800m.

197 mouse traps, 60 rat traps, 28 stick traps -

2 Melomys, 1 bird, 1 foot of a Phascogale.

19 Rattus brought in by natives.

This morning reset 90 ^{rat} traps and 1 stick trap and prepared specimens. This morning afternoon prepared specimens and sorted it - for odd jobs about camp.

Watched for bats this evening but as on other rainy or misty evenings none were seen.

Transport returned from the camp below "Bele" river. They will return tomorrow with another load. There is Pogonomys here but who have to carry.

Weather 6:00 & 20:00 overcast with intermittent heavy rain

Nov. 4. 9 km. Mc Lake Habbema, Netherlands New Guinea 2800m.

197 mouse traps, 150 rat traps, 29 stick traps.

3 Melomys, 2 Stenomys, 1 bird.

General Account

This morning tended traps, prepared specimens and rigged the tent for drying specimens. The afternoon went hunting along the east bank of the river. Saw no mammals. Came back early because of rain.

Transport left this morning with soldiers, Dyak, convicts and 37 Pipers. This afternoon 11 additional went down unescorted. There were 15 loads of the American party taken by the first party.

Weather: 6:00 - 20:00 overcast with occasional small opening in morning and light rain in afternoon. Last night there was a very heavy rain.

Nov. 5 9 km. NE Lake Habbema, Netherlands New Guinea 2800 m.

197 mouse traps, 150 rat traps, 29 steel traps -
4 Melomys, 4 Stomoxys, 1 Anisomya. The following brought in by natives, 1 Pseudochinus, 1 Phascogale, 1 Mallomys, 1 Dactylopsax.

Today was spent in collecting traps, preparing specimens and packing specimens and equipment. Tomorrow I leave for the 2200 m. camp. Am leaving the radio here for Brass. The transmitter will be taken to Habbema.

Weather: 6:00 - 10:00 clear.

10:00 - 14:00 high broken clouds.

14:00 - 20:00 overcast with occasional rain.

Today a transport came down from Habbema, as well as one returning from the camp below.

Nov. 6 Bele River, 18 km. NE Lake Habbema, Netherlands New Guinea 2200 m.

No traps. Mammals brought in the following -
1 Dactylopsax, 1 Phascogale, 5 Melomys, 7 Rattus,
1 Stomoxys.

Left camp ^(2800 m.) with a transport load for this camp at 7:00 and arrived here about 11:00. It is a rough slow trail due to recent rains, mud bogs, and slippery soil. Our route was that of a native path crossing the camp stream some 3 or 4 kilometers below then a series of ups and downs, with more of the latter until the final last drop of a

steps 300 m. slope into the gorge of the river. For the first time we see cultivated gardens (small) and permanent houses with thatched grass roofs. The trail comes in at the forks of the river, the northern one being the larger of the two. The other is probably the same stream which runs past camp (2800 m).

After studying the river we followed it along for about 3/4 hr. to camp which is constructed at the junction of the "Bele" and "Gur-guy". The camp is well situated at the forks of the river on a rise of land. At present it consists of the military and Dyak quarters, preparation shed, cook shack, and tent for the 4 white people, Dr. Hils, Fox and myself. There are also superstructures to prevent ^{sun} heat and poles for the rigging of other necessary tents and flaps. This camp appears to be ideally located for here we have virgin forest, river, second growth and gardens in which to collect.

Weather: 6:00 - 20:00 overcast with occasional small rainings in morning

Nov. 7, Bele R., 18 km N Lake Habbema, Netherlands New Guinea 2200 m.

No traps. The natives brought in the following:
2 Cudromera, 1 Melomys, 2 Phacops, 2 Rattus.

This morning set out 218 rat traps and ~~5~~ 5 stake traps. This afternoon prepared specimens and started one of Brown's ovens for the drying of my mammals. The numerous dull days has made it difficult to dry specimens. The papuans have brought in a number of good things since we have been here. Hope that their interest and desire to catch mammals continues.

Weather: 6:00 - 12:00 high hazy clouds.
12:00 - 20:00 overcast with intermittent rain.

Nov. 8, Bele R., 18 km N Lake Habbema, Netherlands New Guinea 2200 m.

218 rat traps, 5 stake traps - 1 Melomys

General Account

1 Rattus. The following were brought in by natives:
 1 Melomys, 1 Anisomys, 2 Melomys, 1 Phascogale.
 10 Logonomys, 8 Rattus

This morning tended traps, prepared specimens and set out about 90 mouse traps and 2 steel traps. This afternoon prepared specimens.

Locality of trap line. The traps set yesterday begin at camp through old grassy garden and second growth; along the steep river slope in rocky terrain with virgin forest, then cross second land slopes, ~~up~~ up the canyon slope and over the ridge through heavy forest; into a newly cleared garden; through an old but producing garden, down the ridge slope toward camp through second growth forest; about grassy clearing of native houses; through abandoned grassy garden. This line is in the general direction N^o from camp covering a distance of not over $\frac{1}{2}$ km in line. The traps today were set S^W of camp some $\frac{1}{2}$ km. through a forest of the canyon slope and along the ridge. The latter, along the ridge, had been well worked over by natives pig and as I consider it a very poor place to trap.

Weather: 6:00 - 12:00 overcast.

12:00 - 5:00 large broken clouds.

13:00 - 20:00 overcast with intermittent rain.

Nov. 9 Dele R. 18 km N. Lake Hellen, Netherlands New Guinea 2200 m.

90 mouse traps, 218 rat traps, 7 steel traps.

1 Melomys, 1 Stenomys. The following brought in by natives: 26 Rattus, 3 Phascogale, 3 Melomys, 1 Stenomys

This morning tended traps, the rest of the day was spent in preparing specimens.

Weather 6:00 - 8:00 - overcast.

8:00 - 20:00 large shifting clouds with occasional complete overcast and light rain

Nov 10 Bela River, 18 km. Lake Habbema, Netherlands New Guinea 2200m.

90 mouse traps, 218 rat traps, 7 steel traps. —
1 Pseudohis, 1 Stenomys, 2 Melomys. The following
brought in by natives: 2 Phascogale, 4 Melomys,
1 Stenomys, 8 Rattus.

This morning up to 1200 tumbled traps and
prepared specimens. The remainder of the
day was spent in watching a native dance
and feast put on in our. It consisted of
a dance, pig killing, preparation and cooking of pigs (4),
smearing our hands with grease and blood, eating of roasted liver,
ear marking pigs, being sprinkled with blood and water,
inspecting groups of men and group of women, the feast,
and the buying of the ^{throat} pigs.

Today the transport arrived from the
2800 m camp and with it Brass + Rand. The
camps is abandoned, all material + food stuff
have been moved down.

Weather 000-10:00 large broken clouds. 14:00-20:00 overcast, rain.

Nov 11 Bela R., 18 km Lake Habbema, Netherlands New Guinea 2200m.

90 mouse traps, 218 rat traps, 7 steel traps —
#5485
1 Melomys. The natives brought in the
following: 4 Pogonomys, 12 Rattus, 4 Stenomys,
6 Melomys.

This morning tumbled traps and prepared
specimens. This afternoon took a stroll ^{up} from the
canyon slope across the river from camp to
the north, over the steep hillsides, through
gardens and second growth, into the
primary forest to the main trail. Followed
the main trail to the west through the
forest and into garden and to the final
house. Natives here very friendly. From there left
the main trail and down the ridge to
through cut over on second growth forest to
the river bank some $\frac{3}{4}$ km above camp.

Kind, Fox + Dr. Hill left this
morning for the landing place on
the Grand River with a party of 10 soldiers,
12 Dyaks, and 11 convicts.

General Account

Weather: 6:00 - 20:00 overcast with rain in afternoon and evening.

Nov 12 Bele R., 18 km N Lake Habbema, Netherlands New Guinea 2200m.
90 mouse traps, 218 rat traps, 7 stick traps. - 1 Stenomys #5496
1 Melomys #5504. The following was brought in by natives: 4 Melomys, 5 Rattus, 1 Doctylonax, 1 Anisomys, 2 Peromyscus, 3 Phascogale.

The morning trued traps and prepared specimens; this afternoon prepared specimens.

Today the Dyak set out 22 stick traps in the forested * canyon slopes NE of camp.

Weather: 6:00 - 9:00 overcast

9:00 - 14:00 large shifting clouds with occasional large opening.

14:00 - 18:00 overcast, rain.

18:00 - 20:00 - clear.

Nov 13 Bele R., 18 km N Lake Habbema, Netherlands New Guinea 2200m.

90 mouse traps, 218 rat traps, 29 stick traps: -
1 Melomys #5540. The following was brought in by natives: 1 Dorcopsis, 1 Pseudodipus, 25 Rattus, 1 Melomys, 1 Peromyscus, 2 Phascogale, 8 Pogonomys, 1 Uromys, 1 Eudromia.

The specimens from 9 km NE Lake Habbema #5548 to 5557 were collected and prepared by A.S. Reed.

The morning early trued traps. The remainder of the day was spent in preparing specimens.

The evening packed a box of dried skins to be taken to Habbema tomorrow.

Weather 6:00 - 18:00 overcast.

10:00 - 15:00 large clouds with occasional small opening.

15:00 - 20:00 overcast.

Last night there was a heavy rain.

Nov 14 Bele R., 18 km N Lake Habbema, Netherlands New Guinea 2200m.

90 mouse traps, 218 rat traps, 29 stick traps -
1 Phascogale, 1 Stenomys, 1 Lorentzimys. The natives brought in the following: 2 Anisomys

1 Stenomys, 12 Melomys, 2 Dactylopsax, 2 Peroryzetes,
1 Ryromys, 1 Chasmodon, 4 Eudromicia, 1 Dasyurus.

The early morning was spent in ~~the~~ tending traps: the remainder of the day in preparing specimens.

The morning 7:10 Road with small transport left for Habema. They are to remain there until the Sula removes the specimens and equipment.

Natives brought in a pig for which they refused 20 shells. On the other hand they willingly sold with enthusiasm except 2 shells for a large Pseudochinus.

Weather 6:00 - 20:00 broken overcast with occasional opening. no rain.

Nov 15 Bela R., 8 km N. Lake Habema, Netherlands New Guinea 2200m.

198 mouse traps, 218 rat traps, 29 steel traps -

1 Lorentzimys, 2 Melomys. The natives brought in the following: 17 Melomys, 3 Stenomys, 1 Rattus, 5 Pseudochinus, 1 Dorcopsis, 4 Peroryzetes, 1 Chasmodon, 1 Mallomys, 2 Anisomys.

The day was spent between the radio and the preparation of the specimens.

Yesterday forgot to mention that the remainder of the mouse traps was set along the line of steel traps in the forest west of camp.

Weather 6:00 - 14:30: Sun with scattered clouds.

14:30 - 20:00 overcast with rain.

Nov 16 Bela R., 10 km N. Lake Habema, Netherlands New Guinea 2200m.

198 mouse traps, 218 rat traps, 29 steel traps -

1 Ryromys, 2 Melomys, 1 Stenomys. The natives brought in the following: 3 Peroryzetes, 4 Chasmodon, 7 Lagomys, 4 Melomys, 2 Anisomys, 1 Phalanger, 1 Eudromicia.

Today for the most part was spent in preparing mammals although some time was taken

General Account

up with radio.

The Gula made a trip to Pshabang then to Grand River, and up to Habbema.

Weather: 6:00 - 8:00 dull overcast.

8:00 - 14:00 clear with occasional cloud.

14:00 - 16:00 storm to north.

16:00 - 26:00 overcast and rain.

Nov 17 Bele R., 18 km N Lake Habbema, Netherlands New Guinea 2200m.

198 mouse traps, 218 rat traps, 29 stick traps.

1 Placogale, 2 Melomys. The following brought in by natives: 2 Melomys, 1 Phalanger, 1 Thomomys, 2 Anisomys, 10 Pogonomys, 15 Melomys, 5 Stenomys, 1 Hydromys, 1 Peroryzetes, 5 Eudromia.

Loaded radio and rats today and setting etc. The natives are still bringing in more material than I can carry.

The Gula did not make scheduled flight today because of the weather.

Weather: 6:00 - 9:00 dull broken overcast.

9:00 - 12:00 broken clouds, long showers.

12:00 - 20:00 overcast rain.

Nov 18 Bele R., 18 km N Lake Habbema, Netherlands New Guinea 2200m.

198 mouse traps, 218 rat traps, 29 stick traps -

1 Melomys. The following were brought in by natives: 1 Melomys, 6 Placogale, 5 Peroryzetes, 59 Pethus, 26 Melomys, 2 Pseudochirus, 1 Dasyurus, 1 Phalanger.

The ^{early} morning was spent at the radio and the remainder of the day preparing rats. Prepared skulls only of a quantity of material which had been accumulating and which I had previously had no opportunity to carry.

The Gula made its flight to the Bahua and to Habbema today.

Weather

6:00 - 12:00 clear.

12:00 - 20:00 overcast with rain.

Nov 19 Bela P., 18 km N Lake Habbema, Netherlands New Guinea 2201m

198 mouse traps, 218 rat traps, 29 stake traps - 0

The natives brought in the following: 22 Melomys,
10 Stenomys, 2 Phalanger, 1 Hydromys, 6 Anisomys,
1 Phascogale, 11 Pogonomys, 3 Pseudochirus.

Again today my time was spent at racks and rats.
Kard returned this morning from Habbema. The
camp there is ^{now} abandoned. He brought with him the
repaired transmitter and so now after 18 days we
are again "in the news".

Gala made flight to Grand River today.

Weather: 6:00 - 12:30 generally clear with
occasional shifting cloud.

12:30 - 20:00 overcast with heavy rain.

Nov 20 Bela P., 18 km N Lake Habbema, Netherlands New Guinea 2200m.

198 mouse traps, 218 rat traps, 29 stake traps -

1 Nattho. The natives brought in the following:
6 Pseudochirus, 2 Anisomys, 1 Phalanger, 2 Pteromyia,
20 Melomys, 18 Stenomys, 1 Uromys, 4 Phascogale

This morning was spent tending traps
and preparing specimens. The afternoon in
preparing specimens.

This late afternoon a native came in and by
the use of signs led us to believe that one of
the natives whom had been attacked by soldiers,
and that the man was out looking for pay back.
He left denying the question but one of the
policemen also denied the ~~the~~ report. Regardless
all soldiers out of camp today were rounded up
and questioned. There was a good deal of stir
in camp over the affair which is now dropped
until tomorrow if further developments. The
guard is doubled.

Weather: Unsettled all day ^{with} shifting
clouds, rain, sunshine.

Took up the rat traps and stake traps
set east of camp in the forest.

Nov 21 Bela P., 18 km N Lake Habbema, Netherlands New Guinea 2200m

198 mouse traps, ~~218 rat traps~~, 24 stake traps -

General Account

1 Phascogale, the natives brought in the following: 1 Hydromys, 2 Chomys, 1 Anisomys, 2 Peroryzetes, 16 Melomys.

This morning was spent in setting the rat traps in the forested ridge east of camp. It is high and in a more open forest than that previously set in. Large areas with scattered undergrowth and little. The latter part of the traps line is in an old cut over and grass land garden area. The 90 mouse traps and 2 steel traps set ⁵⁷⁵ ~~575~~ of camp were taken up today and reset in the forest to the north. The latter was done by the collecting boys.

There was no more information on the signs of insect activity. The natives told a native woman had been attacked by soldiers. It is apparently a false story.

Weather: 6:00 - 6:50:00 - generally clear with few scattered clouds.

15:00 - 20:00 - overcast with light rain.

Nov 22 Bile R. 18 km N Lab Kabbema, Netherlands New Guinea 2200m.

198 mouse traps, 206 rat traps, 29 steel traps.

2 Melomys, 2 Stenomys #5947 to 5950 inclusive.

The natives brought in the following: 1 Peroryzetes, 6 Pandanus, 5 Phascogale, 4 Anisomys, 13 Melomys, 4 Phalanger, 1 Eudromicia, 1 Pogonomys 2 Stenomys.

This morning checked traps and prepared specimens, this afternoon prepared specimens. The natives are still bringing in quantities of material.

Weather: 6:00 - 18:00 overcast with occasional small squalls, light afternoon rain.

18:00 - 20:00 clear.

Nov 22 ²⁵ Bile R. 18 km N Lab Kabbema, Netherlands New Guinea 2200m

198 mouse traps, 206 rat traps, 29 steel traps -

1 Dasyurus, 1 Melomys, 1 Stenomys. The

following were brought in by natives: 8 Pogonomys,
6 Crisonomys, 2 Phalanger, 22 Melomys, 1 Peroryzetes,
1 Dactylopsax, 2 Phascogale, 1 Pseudochinus

This morning trapped traps and prepared specimens,
this afternoon prepared specimens.

Today for the first time native women came
into (near) camp to sell sweet potatoes.

Weather: 6:00 - 12:00 Scattered clouds, sunshiny.

12:00 - 20:00 Overcast with occasional
rain.

Nov. 24 Belk P., 18 km N. Lele Nabawa, Netherlands New Guinea 2200m

198 mouse traps, 204 rat traps, 29 stick traps.

1 Peroryzetes, 1 Phascogale, 1 Melomys (skinned). The
following were brought in by natives:

9 Crisonomys, 3 Pogonomys, 8 Pseudochinus,

6 Peroryzetes, 5 Phascogale, 16 Melomys,

1 Dorcopsis, 1 Phalanger, 1 Lorentzimys.

This morning trapped traps and prepared
specimens; this afternoon prepared specimens.

According to Red-story word in by the
natives that Jarind was on his way here.

We expect him tomorrow sometime.

Weather 6:00 - 8:00 overcast.

8:00 - 14:00 clear with some shifting
clouds

14:00 - 20:00 overcast with light rain.

Nov. 25 Belk P., 18 km N. Lele Nabawa, Netherlands New Guinea 2200m.

198 mouse traps, 204 rat traps, 29 stick traps.

1 Dorcopsis, 1 Phascogale, 1 Stenomys, 1 Melomys (skinned)

The following were brought in by natives:

3 Phascogale, 18 Melomys, 1 Hydromys, 3 Peroryzetes,

2 Mallomys, 1 Stromys, 4 Crisonomys,

2 Phalanger, 10 Pogonomys.

This morning trapped traps and prepared
specimens; this afternoon prepared specimens.

This morning about 11:15 Capt. Jarind, Fox, Foxie
and transport arrived from the Grand River camp
after 3 days of travel.

General Account

Weather 6:00 - 7:30 - overcast

7:30 - 14:00 - large shifting clouds.

14:00 - 20:00 - overcast and rain.

Nov 26 Bale N. 18 km N Lake Habbema, Netherlands New Guinea 2200 m.

198 mouse traps, 204 rat traps, 29 stick traps - 1 bird.

The natives brought in the following: 4 Agoromys,
2 Pseudochina, 7 Arvicomys, 5 Thalassomys,
3 Peromyscus, 3 Hydromys, 4 Melomys.

Today prepared specimens and packed material for the transport to the other camp. The following is a list with weights of equipment ready to go down.

Box 22	- Shells, flat skins, collecting eqn	18½ K
Box #9	- Small mammals	10½ Kms.
Sack Nr. 5	- Flat skins.	6 K.
Box 27	- Large mammals	9½ K.
Case 2	- Alcoholics	4½ K.
Box 4	- Collecting box with gun specimens	18½ K.

The weather:

6:00 - 20:00 overcast with afternoon ^{and evening} rain.

Nov 27 Bale N. 18 km N Lake Habbema, Netherlands New Guinea 2200 m.

198 mouse traps, 204 rat traps, 29 stick traps.

1 Pogonomys, 1 Melomys, 1 Stenomys. The following were brought in by natives: 4 Thalassomys, 4 Peromyscus, 8 Thalassomys, 1 Endromisina, 4 Pseudochina, 11 Melomys, 6 Stenomys, 4 Arvicomys, 1 Dasyurus, 1 Hydromys.

The morning traps were set and compared specimens, this afternoon went in search of a trapping locality in the east slope of the "Sun-Dry" Peak (the small stream near camp). The area, although favorable for trapping, has been disturbed by pigs, rendering it unavailing.

About 7:00 a large transport left this morning for the camp on the Grand River. All Dyaks (coolies), Corvets, and many soldiers. The American party had 25 loads. This transport is the first of the two

employed to move camp from here to there.
This morning took up all of the rat traps
and 5 of the steel traps. They are to be
reset tomorrow.

Weather 0:00 - 10:00 overcast.

11:00 - 16:00 broken with sun and large cloud.

16:00 - 20:00 overcast, very light rain.

Nov 28 Belu N., 18 km N. Lake Habbema, Netherlands New Guinea 2200 m.

198 mouse traps, 24 steel traps - 0.

The natives brought in the following: 11 Arizomys,
3 Peromyscus, 2 Uromys, 2 Dorcopsis,
2 Phalanger, 3 Pteropus, 1 Melomys,
4 Pseudochinus.

This morning reset 213 rat traps and 5 steel
traps in the forest east of camp. Followed the
main trail out of the little valley and into
the forest edge for about 200 yds. There started
the bins setting all of the traps on the
north facing slope of the Belu River. The region
is that of heavy open forest with a thick
undergrowth and a forest floor of leaves
and litter. In spots the floor is very damp and
black with rotting leaves. This afternoon
prepared specimens.

Weather 6:00 - 15:00 clear with occasional
shifting cloud.

15:00 - 20:00 overcast, light evening rain.

Nov 29 Belu N., 18 km N. Lake Habbema, Netherlands New Guinea 2200 m.

298 mouse traps, 213 rat traps, 29 steel traps -

1 Stenomys, 8 Melomys (2 discarded). The natives
brought in the following: 5 Arizomys,
1 Hydromys, 1 Dasyurus, 1 Phalanger,
6 Pseudochinus, 1 Uromys, 1 Dorcopsis,
2 Peromyscus.

Trapped traps and prepared specimens
today. This morning the boys took up
the mouse traps and 24 steel traps. They
are to be reset tomorrow.

General Account

Weather: 6:00 - 9:00 overcast

9:00 - 12:00 long shifting clouds with many breaks.

12:00 - 2:00 Overcast with occasional squalls.
afternoon and evening rain.

Nov. 30 Beli P. 18 km N Lake Habbema, Netherlands New Guinea 2200 m.

213 net traps 5 stake traps - 0

The natives brought in the following:

1 Pseudochirus, 7 Phascogale, 4 Arvicomya,
1 Thalomya, 4 Peromyscus.

Today trued traps and prepared specimens.

This morning my collecting boys set 186 mouse traps
and 17 stake traps in the forest north of camp.

Weather: 6:00 - 10:00 overcast

10:00 - 12:00 broken clouds.

12:00 - 2:00 overcast with light intermittent
rain.

Dec. 1 Beli P. 18 km N Lake Habbema, Netherlands New Guinea 2200 m.

213 net traps, 186 mouse traps, 22 stake traps. -

1 Thalomya. The natives brought in the following:

2 Phalanger, 2 Thomomys, 6 Arvicomya, 2 Phascogale.

1 Pogonomys, Brown shot 1 Phascogale = 7040.

Today natives as usual trued traps and
preparing specimens. I examined the trap
line which the collecting boys set out
yesterday. It is a well set line ~~the~~
beginning in the thick second growth, ~~and~~
in open forest areas, through some forest
with rotan and bamboo undergrowth, on steep
forest slopes with many roots and logs and
finally into the bushy second growth.

Weather: 6:00 - 14:00 overcast with
occasional break. light rain in morning.

14:00 - 16:00 Ande large squalls.

16:00 - 20:00 overcast, light rain.

Dec. 2 Beli P. 18 km N Lake Habbema, Netherlands New Guinea 2200 m.

186 mouse traps 213 net traps, 22 stake traps. -

1 Hydromys, 4 Melomys. The following were brought in by natives: 2 Pezomys, 19 Melomys, 9 Stenomys, 8 Anisomys, 1 Peroryzetes, 1 Phascogale, 2 Pseudochinus, 1 Phalanger, 1 Dactylopsax, 1 Mallomys.

This morning tended traps and prepared specimens. This afternoon went out along the main track to the valley. About 1 kilometre distance is a large sink hole into which a tree was cut and so arranged as to permit a man entering. I plan on returning tomorrow ^{with traps} and look for bats.

Weather: 6:00 - 10:00 generally clear with large shifting clouds.
10:00 - 20:00 overcast in rain.

Dec 3 Beli River 15 km N Lake Habbema, Netherlands New Guinea 22:00 m

184 mouse traps, 213 rat traps, 22 stick traps -

1 Phascogale #7092. The following were brought in by natives: 5 Phascogale, 1 Desomys, 1 Hydromys, 1 Pezomys, 2 Melomys, 1 Thomomys, 2 Anisomys, 4 Peroryzetes, 2 Phalanger, 3 Pseudochinus.

This morning returned to the sink hole, a part of some 50 feet in depth and with a large lateral room (50 x 30 x 30 ft). There was no sign of bats although the walls, crevices, and floors were searched for signs.

This morning of about 10:45 Capt. Terrier and transport returned from the Grand River.

Weather 6:00 - 9:00 overcast

9:00 - 14:00 scattered clouds

14:00 - 20:00 overcast light continued rain.

Dec 4 Beli R. 15 km N Lake Habbema, Netherlands New Guinea 22:00 m

No traps. All the traps were taken up yesterday. The natives brought in the following: 3 Phalanger, 1 Thomomys, 10 Anisomys. Today has been spent in preparing specimens and packing for the trip down tomorrow. The following is a list of

General Account

my equipment are packed and ready to go:

3 sacks of traps	@ 20K
1 sack " " +alobulias	20K.
Box 44 Mammals	10K
" 45 " "	9K
" 11 " "	9K
1 Can Skulls	5K.
Box 3 Collecting box	15K
1 set flat skins	9K
" " " "	2K.
Barong	20K
Sung	8K?
Weather	

6:00 - 12:00 clear with occasional cloud.

12:00 - 20:00 overcast, rain.

Dec 5 27 km NE Lake Habbema, Netherlands New Guinea 2250m.

The traps.

This morning broke A camp. The entire party, convict, Dyaks, soldiers and European personnel moving toward our next camp on the Grand river. Our tent has been along the south side of the river, well up on the slope, through the ^{upper} cultivated areas of the southern canyon slope. It has followed a native path, a well worn path which apparently is the main route toward the valley. We left camp at 6:50 and after travelling slowly stopping frequently to wait for carriers and a 4.5 hr. at for launch arrived in camp by 12:15. The remainder of the day was spent about camp trying food and nesting.

Weather: 6:00 - 14:00 clear with occasional cloud.

14:00 - 20:00 overcast, rain.

Dec 6 370 km ENE Lake Habbema, Netherlands New Guinea 1700m.

The traps

Broke camp this morning at 6:30 ^{starting} continuing along the upper ^{at} south slope of the

Bel. R. At about 10:00 we came out of river slopes and on to the spurs leading out into the Grand Valley. Following these spurs down to the flat and then in an ~~an~~ southerly direction over the relatively flat valley. Our camp, ^{the evening} is along one of the small streams which flow from the hills through the valley to join the G. River. The flora has been one of cut over area, cultivated gardens, and abandoned grass land gardens.

Weather: 6:00 - 14:00 clear, few scattered clouds over valley.

14:00 - 20:00 - overcast, no rain.

Dec. 7 Grand River camp, Netherlands New Guinea 1600 m

Left the camp in central Grand Valley this morning and arrived here this afternoon at about 1:00. There is a good camp established near the edge of the river in an old garden clearing. This area has been at some time or other been a garden. There are cultivated fields some 20 min. distant from here. Much the thing of most interest that none of the original forest remains. All has been cleared even up on the rocky hill slopes well up near the coast.

The country is now second growth grassland with some trees and shrubs along ditches and long abandoned garden areas.

Weather 6:00 - 12:00 scattered clouds.

12:00 - 20:00 overcast, rain.

Dec 8 Grand River, Netherlands New Guinea 1800 m

No traps.

Today spent in camp. A day of rest and letter writing.

Dec 9 Baligan River, Netherlands New Guinea 1600 m.

No traps.

1 Melomys brought in by native. 1 Rattus in by Bross.

General Account

This morning set 199 rat traps. The line begins along a ditch bank over grass with weeds and continues up a small wash with cane grass, then across a flat with cane grass, some grass, and scattered shrubs. Then along another wash with quantity of cane grass and brush forming dense thickets, and finally along a stream with banking a grassy abandoned garden patch. There still remain 185 mouse traps and 28 snake traps.

This afternoon went along the the west bank of the river, down to the bridge and then back through the abandoned cultivated ~~area~~ fields of the upper valley edge. Was searching for a good trapping area but with little success.

Weather 6:00 - 17:00 clear with occasional shifting clouds.

17:00 - 20:00 overcast, rain.

Dec 10 Balim R. Netherlands New Guinea 1400 m.
199 rat traps - 11 Melomys (2 discarded), 1 Stenomys,
2 Rattus (1 discarded)

This morning tended traps, prepared specimens, and set 185 mouse traps. The trap line follows the river bank for about 1/2 kilometer and then along the lowland ditches and shrubs. The vegetation varies from grass, cane, to shrub.

This afternoon went down up the river some 2 to 3 kilometers. There is an patch of river bank forest which has not been disturbed by pigs and man for some while. It may prove to be a good trapping locality.

Weather 6:00 - 14:00 clear with occasional cloud.

14:00 - 20:00 overcast, rain.

Dec 11 Balim R. Netherlands New Guinea 1400 m.
185 mouse traps, 199 rat traps - 18 Melomys,
2 Rattus, 1 Stenomys

Tended traps and prepared specimens this morning. This afternoon Dr. and I went up through the canyon wash

west of camp. This was in one of the most conspicuous things in the region. Erosion here has been very rapid and recent, forming a large alluvial fan at the mouth of a large road or canyon, into which the earth and rocks from the slopes are sliding in. We scrambled up through the road and out over a shoulder to the south and back to camp through a bit of forest of the side hill. It has been cut over by natives and the ground vegetation largely or destroyed by pigs.

Weather: 6:00 - 14:00 scattered shifting clouds.

14:00 - 20:00 overcast, light evening rain.

Dec 12 Belim R., Netherlands New Guinea 1600m
181 mouse traps, 199 rat traps - 9 Melomys, 1 Stenomys, 1 Rattus. The Pipistrellus was shot yesterday evening above camp.

This morning tended traps and prepared specimens. This afternoon went up the river for a short walk but was driven back by the heavy rain. The area is garden land, in cultivation, except for a small strip at the edge of the steep river bank. This strip is vegetated with casuarina and on undergrowth of corn grass or shrubs.

Weather 6:00 - 13:00 unsettled overcast.

13:00 - 20:00 overcast, heavy afternoon rain.

Dec 13 Belim R., Netherlands New Guinea 1600m.

181 mouse traps, 199 rat traps, - 2 Rattus, 2 Melomys (1 dead), 1 Stenomys. 2 Syngnathus were shot yesterday evening. 1 Cebromys was brought in by Dyak. [See further notes.]

This morning tended traps prepared specimens.

A rat should be made for about Dogs.

At the two camps above, the 2800m and 2200m camps, no pigs were seen nor were there apparently any about the native villages. The however tracks of dogs have been seen along the native trails and a single individual seen in one of the villages. This beast was a small

General Account

about 300 mm. high, 800 total length, and 350 tail length. These figures ~~was~~ are estimations rather than actual measurements. The color was that of black and white in broad marks the latter color predominating the anterior half. The tail was held in a slight upward curve, not looped. The ears were erect and pointed. The hair moderately short and with a general slick-shiny appearance. It was a nervous beast apparently and at our approach ran away through the garden only to be brought back by its attentive owner. At a distance of 10 ft. from us it bit the man carrying it and again escaped off through the pig pens and garden. It was a nervous covering beast. Apparently it is highly prized by the natives although I do not know what purpose it serves.

The following were brought in by natives: - 23 Rattus,
8 Melomys.

This afternoon was spent in a boat down the river to the low ridge on the other side of the stream, a distance of about 2 kilometers. Nothing of note was seen.

Weather 6:00 - 14:00 unsettled many clouds, clearing
wind in late morning.

14:00 - 20:00 overcast, light rain.

The river is very high, the highest I have seen it.

Dec. 14 Belim R., Netherlands New Guinea 1600 m.

181 mouse traps, 189 rat traps - 3 Melomys
(discarded). The following were brought in by natives:
1 Melomys, 9 Rattus.

This morning tended traps and prepared specimens. This afternoon reset 189 rat traps. The low river is along the edge of the wash in a patch of second growth forest on the lower hill slope. Traps are set in grass and shrubs above the high water mark at either side of the stream or wash.

Weather: 6:00 - 12:00 unsettled

12:00 - 16:00 overcast no rain

16:00 - 20:00 " rain.

Dec. 15 Belim R., Netherlands New Guinea 1600 m.

181 mouse traps, 189 rat traps. - 2 Melomys
3 Rattus. The following were brought in
by natives: 3 Melomys, 9 Rattus.

This morning tended traps and prepared
specimens. This afternoon reset the mouse traps (168)
to the low hill slopes on the east side of
the river above the rapids. Here the hill slopes
are dotted in limestone rocks, low brush, and grass. It
is a dryer, more rocky area than have the traps
in.

Weather 6:00 - 20:00 overcast, occasional small
springs, ^{light} rain in afternoon.

Dec. 16 Belim R., Netherlands New Guinea 1600 m.

168 mouse traps, 189 rat traps - 5 Melomys,
2 Rattus (1 discard). The following were brought in by
natives: 1 Melomys. The Sycomyzetes was
shot by collector yesterday evening.

This morning tended traps and prepared
specimens. This afternoon visited 3 of the
native villages in the vicinity in search of
a large ♂ pig. They refuse to sell.

Weather 6:00 - 9:00 overcast.

9:00 - 16:00 broken, long clouds
about mountain.

16:00 - 20:00 overcast, light rain.

Dec. 17 Belim R., Netherlands New Guinea 1600 m.

168 mouse traps, 189 rat traps - 2 Melomys.
1 Sus brought from natives. 1 Pipistrellus shot
yesterday evening.

This morning tended traps and prepared
specimens. This afternoon visited several native
villages in hopes of purchasing a pig. We were
unsuccessful with pigs but did buy a dog, the
individual which I described a few days ago. There
was a big dispute among the natives and
we may find it necessary to sell it back to
them.

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Dec 18 Balin R., Netherlands New Guinea 1600m.
148 mouse traps, 189 rat traps - 3 Melomys
3 Rattus

This morning packed equipment to be taken to Hollandia and Tondak roads. This afternoon went in search of a large B. netheri sig. They still refuse to sell.

This morning at 9:30 the Guba arrived, having first delivered food etc. to the Idenburg. It stayed here only long enough to take on our cargo of specimens, 10 men etc. and then returned to ~~the~~ Hollandia. Tomorrow they are scheduled to make a similar trip in and begin the freighting from our camp here to the Berndak camp on the Idenburg.

Weather 6:00 - 12:00 broken with clouds about mountains, sun visible.

12:00 - 16:00 broken clouds

16:00 - 20:00 overcast, light rains

List of specimens etc sent to Hollandia as follows:

Box	44	Mammals	10 Kg
"	45	"	9
"	11	"	9
"	49	"	10 1/2
"	27	"	9 1/2
"	22	Skulls etc.	14
"	52	Mammals	9
Brown box		Flet skins	8
Rice	"	"	5
1 can		Skulls	5
1 bundle		Arms	2 1/2
"		bows	3
1 box		Netheri articles	12
1 bundle		Spoons	9 1/2

Dec 19 Balin R., Netherlands New Guinea 1600m.
168 mouse traps, 189 rat traps - 1 Melomys.
1 Miniopterus was shot last evening.

Today was spent in packing and preparing equipment to be sent to the Peabury. The Dula made 3 trips this morning with over half the men and equipment from this camp.

My equipment consisted of the following:

1 sec barony	16 kg
1 " stub type	10 $\frac{1}{2}$ kg
1 Deles motor	21
1 sec traps	17
1 " "	17 $\frac{1}{2}$
1 " "	15 $\frac{1}{2}$

The weather: (See Radio log).

6:00 - 14:00 clear overhead with clouds about mt. and shifting over valley

16:00 - 20:00 overcast with late rain.

Dec. 29.

This morning was spent in the final breaking of camp. 2 loads of 16 men and approximately 300 kg were laid out. The weather broke early and the first load including Rand + Brass was taken out easily. By mid morning however the North East wind had set in and by the Dula arrived for the second and last load it was blowing a good breeze. The crew were unable to tie up at the bow and their own anchor would not hold against current and wind. The plane was continually being blown into the bank by the strong wind. They finally got the plane into the bay at some 1/2 mile below camp. As quickly as possible we ~~xxx~~ brought the equipment down, loaded, and shoved off. There were several minutes that I was wondering whether or not they would be able to get the plane free of the bank. Such was done and my gun room in the air. At the Burnland camp we discharged the cargo and Brass, Rand, Jose, Phil, van Arden, ~~xxx~~ my collecting bag, Jose's collecting bag and myself left for Hollandia.

General Account

We arrived in Hellenia shortly afternoon, had lunch, and the rest of the day was spent in rest and talk.

Dec 20
Jan 3

Hellenia, Netherlands New Guinea, island.

These days were spent in Hellenia, resting and entertaining ourselves as we each saw fit. We did however do an important bit of work, and that is the packing of all specimens for shipment to New York. There were 11 cases in all bound for the Army Mus. Nat Hist. and 3 for the Arnold Arboretum, Bos. Mass.

Jan 3 Buried Camp, Denburg R., Netherlands New Guinea.

We arrived in camp this morning after some 2 1/2 hrs spent waiting above the cloud bank for the weather to break or for the ceiling to lift. This camp is what might be called par excellent. It is by far the most elegant and comfortable of all of our camps. It was not shown in its best light however for at present the water has flooded over half the camp. There are only two rooms above the flood and that is the dining room and our personal quarters. The barracks are so deep under water that the soldiers were forced to move out and are now busy building bridges and higher barracks.

Jan 4 Bernhard Camp, Denburg R., Netherlands New Guinea.

This day was spent in packing equipment, baggage, provisions, etc for. I have 4 back boxes #58, #17, #3, #4 and a sack of traps. February and March food supplies were packed as well as my collecting equipment for the next 5 months. The radio was tested. It was found that with the transformer no receiver functions although both have been recently overhauled at Hellenia. The vibrators are out of order. They have been repaired and the sets will be packed

tomorrow.

This evening 8.30 went out in a group following along the jungle edge of the lake. The water is very high so that the floor of the jungle is under water. At the top of one of the trees bounding the lake was an adult Phalanger with a jaw \uparrow in pouch. It was easily seen among the green ^{thin} foliage, although the only movement was that of its head. When shot it turned about and proceeded to climb ^(quickly) down the tree to the thicker second story branches. Here it was killed, and although apparently lifless still clung to the branches. One of the Dyaks brought it down after a difficult climb.

The river is now the highest it has ever been. It ~~is~~ came up several inches last night, and continued to rise gradually until about mid day. This evening it started to fall and we are all hoping that by tomorrow it will be much lower.

Jan 5 Bernhard Camp, Idenburg R. Netherlands New Guinea 50 m.
The 2 Phalangers were shot yesterday evening. (see photo for Jan 4.)

Today was spent in packing and rest. This evening took a canoe out along the lake, saw nothing of interest in the way of mammals. Came back in rain.

The water level is subsiding gradually. It is down about 4 or 5 inches today.

Jan 6 10 \pm hr. West Bernhard Camp, Netherlands New Guinea 1200 m.

This morning at 7:00 we left the Bernhard Camp with the transport. Our route was first by stream to the upper edge of the flood plain which is at present flooded by the high waters of the Idenburg. Then along the upper flood plain through the robin forest for 2 \pm hr and then up along

General Account

one of the spurs leading over the first range bordering the Denbury Plateau. ~~The~~ At a point where we crossed this ridge the elevation was about 900 m. Then we followed along another spur up and down, more of the latter, to Arakaria Creek. A nice little river some 25 ft wide flowing toward the south. Here we had lunch and then on along a north spur rising gently to the present camp site. We arrived here at about 2:00 in the afternoon. One hour was taken off for lunch.

The vegetation along the route has been a changing one, first that of the rain forest which reached an altitude of about 750 m. and then gradually changed to a woody forest (very different from many forest of the 2800m camp). This forest in turn has changed to one with less moss and more rot and undergrowth. For description of altitudes and forest composition see Brasser notes.

Jan. 7 15 km S.W. Berend Camp, Netherlands New Guinea 1800m.

Left camp this morning ^{6:45} and arrived here this afternoon about 4:00. It has been a long day of travel up and down following the crest of the ridge between the Denbury and the Rivers.

Set up the radio this afternoon. All in readiness for tomorrow morning's contact.

Jan. 8 15 km S.W. Berend Camp, Netherlands New Guinea 1800m.

Remained in camp today doing odd jobs and resting.

Bats were seen flying again tonight 2:45. This flight being about 6:45 P.M.

Checked Jan. stores and found the following discrepancies - 2 cans sausages, - 3 cans roast beef?, - 1 can flour, - 1 can coffee, + 5 lbs butter, - 2 cans jam, + 1 jar peanut butter, - 1 tin dried apples,

+ 5 tin dried prunes, - 1 tin canned fruit, - 1
tin bees, - 3 tins beef Dupesings, - 1
bottle curry powder, - 1 canned vegetable,
+ 18 pkg. matches, - 2 cakes sunlight soap, - 3 rolls
toilet paper, + 2 bottles whiskey, - 2 bottles creoline,
- 2 gal. kerosene, - 1 lb. + Bresser tobacco, - 8 gal.
gasoline, - 1 tin rice. We have ¹⁷January to
thank for this addition and subtraction.

Jan. 9 15 km S W Birkland Camp, Denbury River, Netherlands New Guinea 1800m

This morning set 232 rat traps. The line
starts near camp and ~~crosses~~ goes to the west along
the north side of the hill slope. It crosses several
small streams and ridges and continues on to the
main ridge. This is followed up near the crest
of the hill, ^{east} along the crest of the hill, and
the main trail back to camp. The region
is that of rain sunny forest.

The afternoon prepared traps for tomorrow
setting, changed locality of aerial and checked
the monthly stores.

This evening bats were seen flying at 6:30.
Two sp. seen on a bat which forages about 30
~~half way up the~~ ^{the} ft above the ground (half way
up the large trees. The other a smaller bat
which forages about the third half way of
the lower second story growth.

After dinner went out with a flash lamp.
Was unable to shine my eyes. Saw three small bats
flying low through the forest.

Jan. 10 15 km S W Birkland Camp, Denbury River, Netherlands New Guinea 1800m

232 traps - 2 Melomys, checked part of the
mouse traps which were set today, - 1 Stenomys. Last evening
a soldier took 1 Pseudocherius in the camp. 3 birds

This morning tended traps and prepared
specimens. The traps set at 193 mouse traps
and 10 steel traps. In afternoon I set out
the remainder of the steel (18); I hunted a short
time in the forest east of camp; and rested.

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The traps were set at either side of the ridge crest east of camp. The line extends through the forest from the ridge, some $\frac{1}{2}$ mile or less and back along the other side of the ridge crest.

This evening watched for bats and glass brought for an hour or so by flash light. Little success. Saw some c.o.s bats but was unable to shoot them. Saw 1 Melomys or Eudromicia by lamp light but after spotting it was unable to find it in the litter.

Weather today - Clear with occasional clouds this morning; afternoon mist; evening light rain, overcast.

Jan 11 15 km S.W. Bernhard Camp Idenburg R. Netherlands New Guinea 1800 m.

193 mouse traps, 232 rat traps, 28 stick traps -

10 Melomys (3 sp.), 4 Stenomys, 1 Phascogale, 2 Pseudochinus (1 juv.),
1 Chalanger, 1 Peromyscus. 3 birds.

This morning loaded traps and prepared specimens; this afternoon prepared specimens. The 2 Oryz collector were out, all morning hunting but returned with only 1 bird. This evening saw 4 bats.

Weather - alternate sunshine, mist, clouds. Weather unsettled with changing wind from North & South. This evening cold, light rain.

Jan 12 15 km S.W. Bernhard Camp Idenburg R. Netherlands New Guinea 1800 m.

193 mouse traps, 233 rat traps, 28 stick traps -

1 Leontizomys, 3 Stenomys (1 discard). 6 birds.

This morning loaded traps and prepared specimens. This afternoon went hunting west along the ridge from camp. No mammals seen. There were numerous runways, large and small, some $\frac{1}{2}$ kilometer out from camp.

Today Road brought up an objection to the use of R. on my labels. In all cases where I have used it it stands for river. Here after it shall be written as requested.

Weather: mist with occasional sun opening showing sun or high overcast.

Saw 4 bats this evening. One was apparently a different sp. at least it fringed in a different manner, - a light blue slight along the upper edge of large trees.

Jan. 13 15 Km. S W Bernhard Camp, Idenburg R., Netherlands New Guinea 1800m.

193 mouse traps, 232 rat traps, 28 stick traps. -
5 Melomys, 1 Stenomys.

This morning tended traps, prepared specimens, and developed pictures. This afternoon was spent in hunting along the ridge which goes to the Sawalis River. Nothing of note was seen.

This evening 8 or more bats were seen. Flying through the mist. The low swift flying species was the most numerous.

Weather: Intermittent mist, cloud overcast, and sunshine.

Jan. 14 15 Km S W Bernhard Camp, Idenburg R., Netherlands New Guinea 1800m.

193 mouse traps, 232 rat traps, 28 stick traps -
3 Pseudohydromys, 1 Melomys, 3 Stenomys,
1 Dorcopsis, 1 Perognathus. The bat, 1 Miniopterus,
was taken by Althoff last evening while catching insects about the lamps. 1 Perognathus was shot this morning by Reed.

Note - The genus Pseudohydromys has previously been taken at this camp and incorrectly cataloged and accounted for as Melomys. The catalogue I shall correct but the species genus accounts shall remain the same with a note indicating incorrect determination. I am not sure that this little Hydromys is a Pseudohydromys but it apparently is closer to that genus than any other described genus and so that it will be called until museum determination.

This morning tended traps and prepared specimens as well as removing the rat traps (227). This afternoon reset the rat traps. The line begins below the camp on the south slope. It follows the small stream down for some 3 or 4 hundred yards and then

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to the west over several small ridges and streams, through a flat shell in the hill slope then up the slope to the north and over the crest. Although most habitats in which the traps are set are numerous the general ~~is~~ area is mossy forest with little, underground, and second story vegetation.

This afternoon the Captain, Dr. Hall and the transport arrived all in good condition and spirits.

Weather: Intermittent showers and mist this morning. This evening from 3:30 to 7:00 there was a very heavy rain.

Jan 15 15 km SW Berland Camp Idenburg R. Netherlands New Guinea 1800m.

193 mouse traps, 227 rat traps, 28 snake traps -
1 Phascogale, 6 Melomys, 8 Stenomys.

This morning tended traps. A rather long and tedious process for each must be re-baited after the heavy rains of last night. Also prepared mammals. This afternoon prepared specimens. Rain prevented field work.

No bats were seen this evening by me. Fog and Mist.

Weather. 6-10 clear with small shifting clouds. 11-seated evening overcast with intermittent rain. Evening heavy mist.

Jan 16 15 km SW Berland Camp Idenburg R. Netherlands New Guinea 1800m.

193 mouse traps, 227 rat traps, 28 snake traps -
5 Melomys, 4 Stenomys, 1 Phascogale, 1 Pseudohydromys.

This morning went up with Road, Brass, van Arden - Turich to look at the next proposed camp site. It is about 2 hrs walking from here along the ridge to the west. alt. 2100± m. It is to be situated on the rather small top of small peak. The vegetation ^{at the top} is thick brush and moss, quite different from any habitat seen here. At distance of some 1/2 hour further on in another and higher hill top overhead there is ^{a quite} a different ^{type of} timber mixed with mossy forest, which is quite different again. These two habitats would be interesting and profitable to work.

The boys took care of the trap lines this

morning and prepared the specimens.

This afternoon reset 192 mouse traps and 11 steel traps. The line now begins at the top of the hill west of camp (800m above camp) and continues westward ^{just} north of the trail which follows the top of the crest. A distance of about $2\frac{1}{3}$ km. out the line doubles back towards camp below the position of line already set.

Weather: Morning ~~and~~ mostly clear with slight mist. Afternoon mist and rain from 2:00 to 9:00.

Jan 17 15 km SW Bernard Camp Idenburg R. Netherlands New Guinea 1800 m.

192 mouse traps, 227 rat traps, ~~and~~ 28 steel traps —
2 Pseudohydromys, 5 Melomys, 7 Stenomys,
1 Phascogale, 1 bird.

This morning tended traps and prepared specimens. The 2 collecting boys were out hunting. Returned this afternoon with only 2 birds. This afternoon finished preparing specimens.

The following is an estimate of the number of carriers needed ~~to~~ to my equipment to the next camp.

5 - traps
5 - radios
2 - personal
1 - collecting box
 $\frac{1}{2}$ - tent.

Total $13\frac{1}{2}$ carriers needed. *

Jan 18 15 km SW Bernard Camp Idenburg R. Netherlands New Guinea 1800 m.

192 mouse traps, 229 rat traps, 28 steel traps —
1 Phascogale, 1 Melomys, 2 Stenomys.

This morning tended traps + prepared specimens. Boys were out hunting. This afternoon spent about 1 hr. hunting east of camp. Returned early because of heavy mist + rain. This evening watched for bats. Saw an 8. My boy shot one of the low fast flying species.

Weather: mist + rain.

General Account

Lieut. van Arden left this morning with transport & established the 2100 m. camp. Fox is planning on going up there on the 20th. Dr. Hells is recovering from his attack of malaria.

Jan 19 15 Km SW Berland Camp, Idenburg River, Netherlands New Guinea, 1800 m.

192 mouse traps, 229 rat traps, 28 stick traps. —
1 Melomys, 2 Stenomys, 1 Pseudohydromys, 2 (1 juv) Phascogale,
2 (1 juv) Peromyscus, 4 (3 juv) Dasyurus. 1 Miniopterus shot
last evening by collecting boy. 1 Pseudochinus shot this morning
by Rards collecting boy.

This morning tended traps and prepared specimens. This afternoon went several hours hunting along the stream south of camp. No mammals were seen.

No bats seen this evening. Fog & mist.

Weather: Mist with occasional clearing showing high conceals or sun.

Jan 20 15 Km SW Berland Camp, Idenburg R., Netherlands New Guinea, 1800 m.

192 mouse traps, 229 rat traps, 28 stick traps —
2 Pseudohydromys, 2 Melomys, 1 Stenomys.

This morning tended traps and prepared specimens. This afternoon constructed a drying room for specimens. The specimens are drying very slowly. To prevent them molding and to clear the pinning boards I am going to make use of the breeze during their usual evening run.

The 2 Dyak collectors reset 17 stick traps. The line goes begin near the top of the ridge west of camp and goes down the ridge to the south.

Weather: Morning up to 11:00 was quite clear with occasional clouds and mist. The afternoon heavy mist. Last night there was a very heavy rain.

This morning Dr. Hells left with transport for the Berland Camp. Dr. Fox also left this morning for the 2100 m. camp. He plans to remain there until the 26th.

Jan 21 15 km SW Berland Camp, Idenburg River, Netherlands New Guinea 1800m.

192 mouse traps, 229 rat traps, 18 steel traps -
2 Melomys, 1 Phascogale, 1 Pseudohydromys,
1 Peromyscus.

This morning set rodent and small traps, and prepared specimens. The 3 Dyaks spent time hunting. The rainy afternoon spent in camp.

No bird hunting.

Weather. Morning clouds with occasional bushes. Afternoon mist and rain. This evening there is a heavy rain and wind from the north.

Jan 22 15 km SW Berland Camp Idenburg R. Netherlands New Guinea 1800m.

192 mouse traps, 229 rat traps, 18 steel traps -
1 Melomys, 1 Pseudohydromys, 1 Stenomys.

The early morning was spent at the radio giving reports of weather to the gold mining plane which was coming to Hollandia from the Degeul. The plane took off and after an hour and returned because of bad weather. About 9:00

I went out hunting and remained out until 12:00. Saw nothing of real interest. Spent most of the time cutting down pondown grasses and looking into parent holes for mammals.

This afternoon spent in camp taking care of the birds. Rand has an attack of fever. He has been mildly ill for the past 3 or 4 days but today he is much worse, unable to eat or move about.

Jan 23 15 km SW Berland Camp, Idenburg River, Netherlands New Guinea 1800m.

192 mouse traps, 229 rat traps, 18 steel traps -
1 Peromyscus, 1 Pseudohydromys, 1 Stenomys,
1 Melomys, 1 Leontomys (big best chie).

1 Phascogale shot by Rondo collecting boy.

This morning set traps and prepared specimens. This afternoon took care of Rondo's birds he not feeling capable of doing so. He is a big chie and eats a little (bread and tea). This morning 229 rat traps were taken

General Account

up but were not used due to the rainy weather. The weather today except for a few hours this morning has been mist and rain. The heavier rain coming this evening.

Jan 24 15 km SW Bernard Camp Idenburg R. Netherlands New Guinea 1800 m.

192 mouse traps, 28 steel traps. - 0.

This morning gathered the ^{crickets} *Amantingia* which died last night and kept the Radio secured. The collecting boys set the 228 rat traps along the north side of the ridge west of the hill from camp. This afternoon was raining and so no field work. Took care of Rando birds. He is still quite ill, unable to keep food on his stomach. He has no temperature nor pains. He apparently possesses only an upset stomach and a weak condition from his 3 day fast.

Weather: Morning fairly clear with occasional light mists + clouds up until 11:30. From 11:30 on there has been continual mist or rain.

Jan 25 15 km SW Bernard Camp Idenburg R. Netherlands New Guinea 1800 m.

191 mouse traps, 229 rat traps, 28 steel traps.

^{1 *Melomys*, 1 *Pseudohydromys*, 1 *Stomoxys*}
This morning checked traps; kept radio secured, and prepared specimens. The collectors reset 190 mouse traps on the mid slope of hill west of camp. The line is on the south facing slope. This afternoon remained in camp tending Rando birds, and waiting for the mist to clear up. Rando is brighter today.

Teerink returned from the 2100 m. camp with a little fever in his hand. (Dr. Bass). Reports that Ica has been ill with malaria; better today.

Weather this morning was clear with occasional light mist up from the Idenburg. This afternoon there has been a heavy mist.

Jan 26 15 km SW Bernard Camp Idenburg R. Netherlands New Guinea 1800 m.

196 mouse traps, 229 rat traps, 28 steel traps. -

4 *Pseudohydromys*, 2 *Procyta* (1 juv.), 2 *Melomys*, 5 *Stomoxys*

This morning took in 189 mouse traps and 11
stake traps and 1 rat trap; prepared specimens;
and checked equipment for the collecting
boys to use in the camp below.

This afternoon Morris and 1 Dyak, Bonding,
left with the transport for the camp below.
This is one of Trogus' camps, which he
will catch butterflies for 1 week. These two
boys have the equipment and the
ability to take care of the specimens but
whether they do or not is up to them.
All we can do is wait and see what the results
of their week's work is like.

The number of bats seen tonight was
2. These few nights there are very few to
be seen about.

Weather: This morning there was a moderately
strong S.E. Wind which kept the camp free of mist.
Large broken clouds with occasional sun. This
afternoon wind was from the North with sleet.

Jan 27 15 km S.W. Bernard Camp, Gianburg R., Netherlands New Guinea 1800 m.

228 rat traps, 17 stake traps - 1 Melomys
1 Phascogale.

This morning's rain delayed the setting of
traps until late. Part of that time was spent
with radio seed-eaters. The gold mining airplane,
a Dornier, is still making surveys of the
Grand Valley and upper Gianburg area.

This afternoon went for a hunt south east
of camp going well down the slopes. It was
a dull afternoon and little even in the way
of birds moving.

Saw 3 bats this evening. There are far
less bats flying about in the evenings
now than during the first few days
after our arrival here. This is perhaps due
to change in climate, to changing of the ground which
they have found unsuitable for feeding, or to the
pressure of camp and a desire to avoid it.

General Account

This morning about 6:45 Captain Termit with transport left for the 1500 m. camp. This he is to get in readiness for our arrival sometime about the 11th of Feb.

Jan 28 15 Km S W Berakad Camp Inderung R. Netherlands New Guinea 1800 m.

228 rat traps, 17 stick traps - 1 Melomys
1 Peromyscus.

Tended traps, measured specimens, and visited the 1500 camp of Fox this morning. This camp is to the south of our present camp and along the same stream where had water as it in camp. It is here that 2 of my collectors are trapping all they can catch getting in the traps last night. I checked the traps here and found that it is well placed. Spent $1\frac{1}{2}$ hours looking for the fish which Fox said occurred along the stream. Secured a single individual near the waterfall that is in the soft deposit which occurs along the stream side. Fox was out in camp the soldiers said he had gone with a patrol down the ridge toward the native gardens. Remained in camp the afternoon because of bad weather.

Jan 29 15 Km S W Berakad Camp Inderung River Netherlands New Guinea 1800 m.

228 rat traps, 17 stick traps - 1 Melomys
1 Pseudohydromys, 2 (1 juv.) Peromyscus.

This morning tended traps, prepared specimens, and raised all dry specimens in paper in preparation for packing. To dry specimens here it has been necessary to make a small oven like affair and keep large burning underneath night and day for the past 4 days. The final drying in this afternoon in one of Bruce's ovens. This afternoon spent in camp.

Wet this morning so mist, clouds broken and occasional sun. Afternoon mist and rain. Some type of weather yesterday.

There were a number of bats seen this evening flying about soon after sundown. Their increase in numbers may be due to lack of rain or mist about at that time. There were 10 or more individuals seen of 2 or 3 sp.

Jan 30 15 km S W Bernhard Camp, Humberg R. Uluwanda New Guinea 1900m.

228 rat traps, 17 steel traps. - 1 *Microtus*, 1 *Peromyscus*.

This morning collect in the traps. 227 rat traps, 17 steel traps, in preparation for the trip to the upper camp tomorrow. Prepared specimens. The remainder of the day was spent in packing equipment. Weather high broken overcast in morning. Wind and light rain afternoon.

Jan 31 18 km S W Bernhard Camp Humberg R. Uluwanda New Guinea 2800m.

No traps. Broke camp this morning at 7:45 and with 20 Dyak carriers Beard and I left for the 2100m. camp. Arrived here some 1 1/2 to 2 1/2 hours later. Beans is coming up tomorrow. Unsuccessful trip up. Tom Arden has built up a good but small camp. Actually there is little room on the top of the hill. To either way, north or south is a steep hill slope vegetated with brush. Consequently the camp is strung out along the ridge top. Arrived in camp this morning & in time to put up the antenna, as well as set up and check the radio. This afternoon was spent in setting 143 rat traps. The line is on the ~~see~~ north side of the ridge. It goes through the very heavy brush thicket which goes ^{over} the steep rocky hill top; through mixed brush and moss forest lower, and into the thick moss forest itself. This latter habitat, the thick moss forest is much like the moss forest on the north slope of the hill west of the 1800m. camp.

General Account

Weather: This morning when we left the 1800 camp it was in mist. There was mist most of the way up until shortly before reaching the 2100 m. camp. Then there was sunshine and a view out over the mist covered valley. About 2:00 this afternoon it clouded over and light rain and mist.

Feb 1 18 km S W Bernard Camp, Quebrera R., Utrabamba, Peru, 2150 m.

143 rat traps. — 1 Melomys, 1 Stenomys

This morning I took traps, set the remainder of the 227 rat traps, and prepared specimens. This afternoon set 17 steel traps. The rat traps were set on the ^{south} ~~east~~ facing slope through the brush, into the moss + Acropogon thickets, and along the low heavily wooded crest of the steep rocky slopes. The steel traps were set about the hill west of camp. Combined with the moss forest is bamboo which tends to occur, or at least where it occurs, there is less moss, some open forest simples.

Beers and transport arrived today.

The tents are being moved from the top of the ridge to a more protected ~~area~~ spot some 50 yd to the west.

Weather: Last evening there was continued rain and a heavy wind particularly during the early evening. The day was one of mist and clouds with a poor view of the surrounding country. At evening however the lower Quebrera came in view.

Feb 2 18 km S W Bernard Camp, Quebrera R., Utrabamba, Peru, 2150 m.

227 rat traps, 17 steel traps — 2 Melomys

2 Peromyscus, 1 bird. The Pseudochimera was shot by Tersteug [k] this morning. There was also a foot of a Peromyscus and another set of long rat such as Thomomys. There was also a dog in one of the steel traps but it escaped while

The Dyak collectors were trying to pin it beneath a forked stick. According to them the color of the breast was brown and white standing up about 16 inches high, and a body length of about 2 feet. It was a ♂. I could hear it crying in the traps this morning from our camp a distance of about 1/4 mile away from the traps in which it was caught. It was a whining loud, not unlike that of a domestic dog. The area was that of an open barrow thicket in a moss forest. It was on a trail on a ridge near and leading to the highest hill in this vicinity.

This morning tended traps & prepared specimens. The Dyaks built 6 snares for large mammals.

This afternoon prepared specimens, went hunting and worked with the radio. I am having receive trouble which is located some where in the vibrator circuit.

Marcus & one of my Dyak collectors returned from the 1500 m camp, the one established by Tox for butterfly catching. Following is report on specimens & traps set. —

1 <u>Peromyscus</u>	
9 <u>Melomys</u> (2 sp.)	189 mouse traps
2 <u>Phascogale</u> (2 sp.)	1 rat trap
4 <u>Stomys</u>	11 steel traps
1 <u>Lorentzimys</u>	201 traps set
17 mammals total.	6 traps night.
	1206 Total trap nights

Feb 3 18 hr. SW Burnand Camp Deabing R. Highlands New Guinea 2150 m.
227 rat traps, 17 steel traps. — 1 Melomys,
1 Peromyscus.

This morning tended traps and prepared specimens. This afternoon spent about camp because of bad weather.

A note from Terink states that he and Tox with transport are going to the 1200 m camp.

General Account

Weather: Overcast during first part of morning, remainder of day mist and light rain.

This day there were 187 mouse traps, 1 rat trap, and 10 steel traps set to either side of the ridge leading up to the top of the hill west of camp. The general area is that of mossy forest with bamboo undergrowth.

Feb. 4 18 km S.W. Bundard Camp, Ukingi R., Netherlands New Guinea 2150 m.

228 rat traps, 187 mouse traps, 27 steel traps. — 1 Pseudohydromys, 7 Stromys

This morning checked traps and prepared specimens. The collectors took up the rat traps 223 and reset them in the bamboo undergrowth about the hill to the west. This afternoon spent in odd jobs about camp. The bad weather prevented field work.

Weather: High overcast during morning. Early afternoon up to 3:30 mist and light rain. 3:30 on high overcast view of Ukingi R.

Feb. 5 18 km S.W. Bundard Camp, Ukingi R., Netherlands New Guinea 2150 m.

~~223~~²²⁵ rat traps, 187 mouse traps, 27 steel traps. — 2 Melomys, 1 Pseudohydromys, 6 Stromys, 1 Peromyscus.

This morning checked traps and prepared specimens. Boys out making rotten snares [?]. Afternoon passed preparing specimens.

1 Phascogale shot this morning by Pardo collecting boy.

Weather: Morning thin overcast with sun coming through at times. Afternoon mist and light rain. Rather strong wind from ^{north west} ~~west~~.

Feb. 6 18 km S.W. Bundard Camp, Ukingi R., Netherlands New Guinea 2150 m.

224 rat traps, 187 mouse traps, 27 steel traps — 1 Stromys, 2 Pseudohydromys, 1 Melomys, 1 Stromys, 1 Arvicanth. 1 Phascogale shot by collecting boy.

This morning spent in checking traps and preparing specimens. The boys made 12 more

snow. As yet the 25 snow nights have yielded nothing, one sprung and one cleaned into. This afternoon finished preparing specimens and resetting the traps. The removal of the dining room fly because of the strong wind necessitated taking down the radio.

This morning a convict from the 1800 m camp arrived saying that a tree had fallen through their camp! van Arken went down and to see the extent of the damage and returned with the following information. Convict analyzed from by inspection of roots beneath his bed. He crawled to the camp and all out to watch the tree fall. It went across both of the military quarters and some limbs went through the dining fly. No one hurt and only slight damage to equipment.

Feb. 7 18 km SW Bentland Camp Idenburg R. Netherlands New Guinea 2150 m.

181 mouse traps, 224 rat traps, 17 steel traps, 25 snares. — 1 Pseudohydromys, 2 Melomys.

This morning tended traps and prepared specimens. This afternoon took a short hunt down the ridge north of camp. A head ache spoiled the afternoon work.

Information over the radio announced that the Gule had returned from Port Moresby after nearly a month's sojourn there.

Weather: This morning got 9:00 could see Idenburg plain and into the South [NW Willemia etc]. After 9:00 clouds closed in on lower valley remaining bright but very much 3:00. After 3:00 mist and light rain.

Feb. 8 18 km SW Bentland Camp Idenburg R. Netherlands New Guinea 2150 m.

187 mouse traps, 224 rat traps, 17 steel traps, 32 snares. — 3 Pseudohydromys, 3 Stenomys, 1 Melomys.

This morning tended traps. 2 Dyaks went out hunting. Mice prepared specimens.

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A Dyak and I went out hunting; spent most of the time cutting Pandanus palms and looking through the dry drooping leaves for mammals. There were found none were any signs of them seen. Found what appeared to be a roset of a squirrel in the fork of pandanus.

This afternoon hunted along the ridge north of camp. Saw nothing of interest relating to mammals except a tree which had apparently been attacked by a *Dactylopsa* - *Dactylopsa*.

The dry rotting wood having been broken out in chunks the largest of which was about 4 inches long and $\frac{3}{4}$ inch thick.

Transport of 4 Dyaks and 2 soldiers arrived today from 1200 m. camp.

Weather: The morning and again this evening were all to see the sky. Remainder of day obscured by clouds. Light rain this afternoon.

Feb 9 18 km SW Bumbud Camp Iking R. Netherlands New Guinea 2150 m.
187 mouse traps, 224 rat traps, 17 stick traps, 32 snares -
1 Phascogale.

This morning I remained in camp for radio records. Also prepared the specimens. The boys collected traps and during the late afternoon morning caught reptiles. This afternoon went out with Dyak and dog about the moss at the bases of large trees in hope of uncovering a mammal nest. In every case the ground was too moist and there are many runways, burrow coming to the subterranean layer for at least 2 1/2 ft in depth. The cover consists of moss, and decaying organic matter supported by the many roots.

Weather: One of the best days here. High overcast part of the time, scattered clouds over Iking R. + Mt to south. No rain.

Feb 10 18 km SW Bumbud Camp Iking R. Netherlands New Guinea 2150 m.
32 snares - 1 Thomomys

This morning broke camp and moved to the

1800 m. camp. The rains which began early this morning and continued until 8:30 A.M. made the breaking of camp unpleasant. The carriers after their trip up from 1800 m. camp were wet and cold, the equipment was wet and heavy, and all in bad humor especially Rand. von Arden and I remained in camp until the collectors had returned from trading the snare and at 9:50 started down. Arrived at 1800 m. at 11:10, to find tents up and all in order. This afternoon "checked weights of carriers loads and loads".

Feb. 11 15 km S.W. Beuland Camp Idenburg P. Netherlands New Guinea 1800 m.

No traps.

Broke camp this morning and on the road down by #7 7:00. At level just the other side of the 1700 m. top and on to camp. Beers, Rand, von Arden with their collecting & personal bags, and 4 carriers and several soldiers remained at the 1500 m. point to collect for a day or two. I along with the transport came to the 12:00 m. camp ²³⁰⁻⁵⁵⁰. Found a well prepared camp ~~was~~ ready to move in and begin on collecting. Sent mail and a few mic-races up to Beers, etc.

Toa came in this afternoon about 4:30. He reports very high water on the Idenburg making it necessary to move camp as soon as possible. All available carriers and soldier are to be recalled to move. Plan on moving to Archaria creek 800 m. Mosquitoes, leeches, and frogs are also adding to the discomfort of those in Beuland camp.

Weather: good for traveling overcast, but no rain; at times light mist.

Feb. 12 6 km S.W. Beuland Camp Idenburg P. Netherlands New Guinea ~~to 800 m.~~ 1200 m.

No traps.

This morning, in fact most of the day spent

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about camp getting things in readiness for collecting. This morning the boys set out 185 mouse traps ~~and shot~~ returning late to camp. This afternoon I set out about 80 rat traps returning early to put radios in repairs for the evenings ahead. This evening out shooting bats. They run 20-30, flying 10 to 20 feet up from the forest floor. Would say ~~judge~~ that there would not be over 2 species, judging from manner of flight activities.

Had come down from the 1500 m. camp. Reports that conditions of bird life there are much the same as those of the 1800 m. camp. Seems strange to me but must accept the local word until I find out otherwise.

Weather: Early this morning sunshine of light overcast. About 9 it began to rain and continued intermittently until 12:00. followed by short period of sunshine; overcast and evening mist.

Feb 13 6 km SW Buntad Camp Ishaung R. Netherlands New Guinea 1200 m.

185 mouse traps, 80 rat traps - 0

1 Embellonura shot yesterday evening.

This morning I studied traps, prepared the specimens and went out hunting along the stream. The boys set the remainder of the 223 ^{rat} traps. This afternoon spent about camp. The boys set the 27 steel traps.

Tecuit, Kalls, Schuder, Bress, and van Arden arrived in camp today. The 2 laths from the 1500 m. camp and the 3 poles from Buntad camp. It is the most well men that have been congregated in ^{any} one ^{of our} camp since we left Hahera.

This evening shot bats and went gackin for a short time.

Weather overcast with occasional breaks.

Feb 14 6 km SW Buntad Camp Ishaung R. Netherlands New Guinea 1200 m.

185 mouse traps, 223 rat traps, 27 steel traps -

3 Peromyscus, 1 Uromys, 1 Phascogale, 2 Melomys.

1 Chacocylus and 1 Micromys shot.

This morning traped traps and prepared specimens. This afternoon made equipment ready for Mores and Bending as they go to the Segie River. These 2 collecting boys are going with Fox tomorrow to one of his small butterflylike camps. They plan on being there for 14 days. The boys are taking 18# mouse traps, 19 steel traps, a gun and collecting equipment with orders to work the area out. They have the ability to make a good collector providing they bend their efforts towards trapping + hunting.

This evening out shooting bats again. Secured 1 Emballonura. There are many bats flying about this camp; flight beginning about 6:30 and continuing on as late as one can see.

There is a frog calling in the forests whose voice is much like that of a dog bark. Some here have already compared the two.

With overcast with frequent breaks letting the sun through. No mist. Nights clear.

Feb. 15 6 Km SW Burnard Camp Idubung R., Netherlands New Guinea 1200 m.

223 rat traps, 17 steel traps -

1 Dasyurus, 1 Uromys, 1 Chacocylus and
1 Emballonura shot.

This morning traped traps and prepared specimens. This afternoon continued preparing specimens, and built oven for drying specimens. Feel rather low with a headache and unable to walk without stumbling.

Fox will transport all my two collecting boys left this morning for this new camp on the Segie River. To be away for 2 weeks.

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Weather: Overcast with occasional breaks. No mist.
None this evening.

Feb. 16 6 km. SW Bernhard Camp, Dumbong River, Netherlands New Guinea 1200m.

223 rat traps, 17 snake traps - 1 Rattus,
1 Mallomys. Yesterday evening 2 Miniopterus were shot.
This morning traped traps and prepared
specimens. Afternoon went for a short hunt along
ridge to east (no mammals seen). Returned to camp to take
care of specimens, that is packing of dry skins. Today the
boys spent their time in hunting, no mammals & birds.

A thing of interest to me in the fresh
dew of a "cuscus" on a walk through camp. It
was apparently deposited last night by an animal
traveling through the trees of camp in spite
of the rain which continued most of the night.

Transport returned from Segie River (Taru camp)
and a small transport of 2 soldiers and 1 convict in today
from Bernhard Camp with 2 cans of gasoline. Understood
that bulk of the transport came only as far
as Bernhard Camp.

Weather: Morning short period of sunshine followed
by mist which lasted until about 11:00. Mist cleared
followed by high heavy overcast. Heavy rain
last night.

Feb. 17 6 km. SW Bernhard Camp, Dumbong River, Netherlands New Guinea 1200m.

223 rat traps, 17 snake traps - 1 Rattus.
Spent most of day in bed with malaria.
Managed to prepare the specimens this evening.
Serich, Hills, Schreuder and transport moved
to Anarua Creek where they plan to keep
permanent quarters.

Mr. Tom Fox says all is well. Have contacted
the natives there.

Weather: Morning low sunline, afternoon
overcast followed by heavy rain.

Feb. 18 6 km SW Buntard Camp, Hainburg R., Netherlands New Guinea, 1200m.

223 rat traps, 13 steel traps, 23 snares. -
1 Echymipera, 1 Dasyurus, 1 Hydromys,
1 Phascogale.

This morning checked the snares and prepared specimens. This afternoon finished preparing specimens and checked the rat traps, resetting those where possible and baiting all.

All in well in camp. The rain that I have had to the west & days has practically vanished.

Weather: Morning alternate clouds & sunshine with the latter dominating. Afternoon overcast with very light rain. Evening clear.

Feb. 19 6 km SW Buntard Camp, Hainburg R., Netherlands New Guinea, 1200m.

223 rat traps, 17 steel traps, 36 snares. -
1 Melomys.

This morning tended traps, prepared the specimen and wrote letters. This afternoon went hunting down the track. Heard one gong sound as a cat in distress, could not find owner.

Trusteeg during his cutting of trees about this area has twice seen bats. These he said flew out of fern palms when struck by the fallen tree. On another occasion a cuscus was seen escaping ^{from} having fallen with the tree. It was said to have a white bellie.

Weather: mostly clear this morning clouding up this afternoon. Rain this evening.

Feb. 20 6 km SW Buntard Camp, Hainburg R., Netherlands New Guinea, 1200m.

223 rat traps, 17 steel traps, 74 snares. -
1 Melomys, 1 Dasyurus, 1 Dorcopsis, 2 (1 juv.) Echymipera.
1 Catalluma sp.

This morning tended traps and prepared specimens. This afternoon finished

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taking care of the mammals and labelled and ringed Band birds.

This morning Rand left for the Bernhard Camp. The Gule and Chubbald are scheduled to come in tomorrow and Rand has been requested to meet them.

A note from Fox today says that all was well in their camp and that they have had no further contact with the natives.

Weather: Alternating sunlines and clouds the former dominating.

Feb. 20 6 Km. SW Bernhard Camp Idenburg R., Netherlands New Guinea 1200 m.

223 rat traps, 17 steel traps, 103 snares -
2 Melomys, 1 Peromyscus. The 2 Phalanger,
and 1 Emballonura were shot.

This morning tended traps and prepared specimens. This afternoon prepared mammals and birds and spent part time resetting 149 rat traps. This line is set N.E. of camp along a ridge top leading toward the Idenburg.

Weather: Early morning overcast, clearing for several hours and clouding up again with light rain forenoon. Afternoon overcast. Evening heavy rain.

Feb. 22 6 Km. SW Bernhard Camp Idenburg R., Netherlands New Guinea 1200 m.

223 rat traps, 17 steel traps, 103 snares - 0.
The 1 Peromyscus was shot.

This morning spent tending traps, preparing the specimens and developing pictures. This afternoon reset 71 rat traps.

Several carriers came in from the Idenburg today. A note from Rand said that he was staying the evening at 800 m camp due to upset stomach.

Shot at flat as usual this evening. Out jacking from 7.45 to 10.15. Saw bats only. One large fruit bat seen several times.

Can be detected in forest by its flapping of wings against the tree probably as it changes feeding location on the same tree.

Two individuals seen and several more heard.

A note from Fox says he is well and happy and that Marcus has obtained 2 Lorentzings.

Feb. 23 6 km SW Bundard Camp Denbury R. Netherlands New Guinea 1200m.

221 rat traps, 17 stick traps, 103 snares -
1 Dasyurus, 2 Rattus, 4 Melomys.

This morning tended traps and prepared specimens. This afternoon completed preparation of skins.

This evening shot was, rain prevented jacking.
Weather: Morning rains overcast. Bunch in overcast early afternoon. Rain yesterday evening.

Feb. 24 6 km SW Bundard Camp Denbury R. Netherlands New Guinea 1200m.

221 rat traps, 17 stick traps, 116 snares - 0.
The 2 Emballonura shot yesterday evening.

This morning tended traps, prepared the specimens, and developed pictures. This afternoon went for a hunt on one of the ridges down toward the Digia R. Saw little in the way of bird life and mammals (mist).

Weather: Overcast, and mist most of day, small breeze this forenoon.

Feb. 25 6 km SW Bundard Camp Denbury R. Netherlands New Guinea 1200m.

221 rat traps, 17 stick traps, 134 snares. -
1 Thomomys, 2 Phascogale, 2 (1 juv.) Dorcopsis.

This morning tended snares and prepared specimens. This afternoon continued preparation of specimens. The boy today set 20 snares and checked the rat traps.

A note from Fox says that he is ~~not~~ and party on all of and that Marcus is getting several good things in traps.

Jurik, Schuck - D. Halls in today reporting all in

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well in Aracani Creek camp. I sent with Terink an order for food sufficient for 3 Europeans upland including C.M. of Murch.

Watched for bats and went joshing this evening but without results.

Weather: Early morning broken clouds remainder of day solid overcast.

Feb. 26 6 Km SW Burnard Camp Idenburg R. Netherlands New Guinea 1200 m.

221 rat traps, 17 steel traps, 154 snares -

1 Melomys.

This morning tended traps, prepared the specimens and developed pictures. Afternoon went in search of new trapping localities along the ridge above camp.

Soldiers returned from Tasso camp today saying all is well. Morcos is reported having caught "less than 40" mammals.

Weather: Overcast and light rain in ^{early} morning. Afternoon breaks in overcast and occasional sunshines; late afternoon solid overcast.

Feb. 27 6 Km SW Burnard Camp Idenburg R. Netherlands New Guinea 1200 m.

221 rat traps, 17 steel traps, 182 snares -

1 Thomomys, 2 Phascogale

This morning tended traps and prepared specimens. This afternoon reset 70 rat traps. Line is to the west of ^{and down} camp, through mixed scrub forest.

Terink and Schreuder arrived this afternoon from the 800 m. camp. Brought in food stuff sufficient to maintain our party until the C.M.

They plan tomorrow to go to Tasso camp and return with him the following day.

Weather: Morning A. mist and overcast. Early and late afternoon broken overcast with some sun. Mid afternoon rain.

Feb. 28 6 Km SW Burnard Camp Idenburg R. Netherlands New Guinea 1200 m.

220 rat traps, 17 steel traps, 182 snares -

1 Melomys, 1 Phascogale, 1 Dasyurus, 1 Echymipera.

This morning tended traps and prepared specimens. This afternoon reset 147 rat traps.

Tuurink and Schenda left this morning for Toso Camp. They took canvas (10) sufficient to move him back to Arocaria Creek tomorrow.
^{W. with} Morning mist with brief intervals of sunshine. The afternoon mist and overcast.

Mar. 1 6 Km. SW Bernard Camp Idenburg R., Netherlands New Guinea 1200 m.

217 rat traps, 17 steel traps, 182 ~~steel traps~~ ^{snaps traps} —
1 Peromyscus, 2 Melomys.

This morning tended traps and prepared specimens. This afternoon prepared specimens, checked and catalogued specimens brought in from the 1500 m. camp, set 15 steel traps, and prepared 173 mouse traps for setting. Unable to set mouse traps because of bad weather.

This morning about 11:00. Fox, Van Arden, Schenda, Tuurink, transport, and my 2 collecting boys arrived from their camp on the Segie R. They, Van Arden, the collectors, have been there for nearly 2 weeks collecting ~~primate~~ mammals. The following is the result of their work.

Specimens 43 (39 ~~set~~ traps, 4 shot)

Traps 175 mouse traps, 10 ~~set~~ steel traps.

Days spent collecting 13

Traps nights 240.5

Traps nights per specimen 62-

Specimen per day 3.3.

The specimens are well prepared and will take care of. They did not overwork but apparently kept the traps busy.

All the Europeans with the exception of van Arden went to Arocaria Creek after having lunch here.

Mar. 2 6 Km. SW Bernard Camp Idenburg R., Netherlands New Guinea 1200 m.

217 rat traps, 27 steel traps, 182 mouse —
1 Peromyscus, 1 Thomomys, 1 Arvicola, 1 Diposops.

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This morning tended traps, prepared specimens, and set 172 more traps. The afternoon finished preparation of specimens and boxed bird specimens in preparation for shipment.

Last evening the boy while out hunting saw two large fruit bats but missed the shot. These bats are not infrequently heard feeding or flying about but we get no large birds to collect on.

Weather: Morning mist and low overcast. Noon heavy rain for about 2 hrs. Afternoon, brief break in clouds remains of low low overcast and fog.

Mar. 3 6 Km. SW Bembard Camp Idenburg River, Netherlands New Guinea 1200m.

217 rat traps, 175 mouse traps, 27 stick traps, 186 snares — 3 Melomys. The Phascogale and 1 Melomys #7610 was found dead.

This morning tended traps, prepared specimens. The afternoon developed vegetation and watched the birds of paradise display ground.

6 carriers took part of Blesser's equipment to Anarain Creek this morning. He will go down with the remainder of his equipment tomorrow.

Weather: Morning overcast mist, occasional rain fall. Afternoon almost sunshine and overcast.

Yesterday evening spent 1½ hours out hunting. The moonlight made observation easy. Saw many small bats and 2 large fruit bats. The latter were flying over the tree tops with a silent, wing beat.

Mar. 4 6 Km SW Bembard Camp Idenburg River, Netherlands New Guinea 1200m.

217 rat traps, 172 mouse traps, 27 stick traps, 209 snares — 1 Melomys, 2 (imm) Peromyscus, 1 Phascogale. The Rattus was found dead, and the 2 Misopiternus were shot.

This morning tended traps and prepared

specimens. This afternoon, went for short
hunt down the track but returned because
of bad weather.

Yesterday evening lay out jacking
and saw "small things" set in a tree
but missed the shot.

Bross moved to 800 m. camp today.

Weather: Mist, overcast all morning.

Afternoon intermittent showers, high broken
overcast with occasional mist cloud from below.

Mar. 5 4th SW Bernhard Camp Idenburg R. Netherlands New Guinea 1200m.

217 rat traps, 172 mouse traps, 27 steel traps,
231 snares — 5 Melomys, 1 Thomomys, 1 Apicomys,
1 Peromyscus.

The morning ^{and afternoon} spent in packing
specimens and equipment for the transport down
tomorrow. All traps are in 172 mouse traps,
216 rat traps, 27 steel traps. I shall leave
Dyck here for the next two days to
tend the snares.

This morning Helt and Schenker
came in. They plan on staying here this
night and tomorrow with van Arken go over
into the Segie River country to visit the
natives.

A note from Bross says all is well.

Weather: High overcast with occasional
light rain, a few short bursts with sunshine.

Mar. 6 4th SW Bernhard Camp Idenburg R. Netherlands New Guinea 1200m.

231 snares (at 1200 m. camp) — 0.

Broke camp this morning and after about 1 1/2
hours travel arrived here. Road remained in
1200 m. camp; coming down tomorrow. The
following is a list of carriage load.

Traps 5
Collecting boxes 2
Specimens 2
Box 32 1

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Tent + Fly 1
Chair, table, + lamp 1
Food stuff 1
Shoes 1
Blowing 1
Radio 5

Total 20. Canin load (light).

Our camp here I believe will prove to be a very pleasant one. It is situated on the high flood plain of Aroraria Creek and is arranged in a spacious manner. Brass says one must walk 800 yd each morning before work. But to me it is quite a relief after the cramped crowded camps which we have had on the Idenburg slope. The climate is comfortable, not too hot, not too cold, and the insects seem well behaved.

After arrival put up the ~~radio~~ radio, arranged my quarters, and set all traps. I have also recruited 4 Dyaks + the Cipelle for making snares. They start to work tomorrow. I now have a total of 90 Dyaks, + Morcan all busy at the rat business.

Weather, overcast + low cloud; occasional light rain.

Put in an order of food today. Quantity necessary for a month's stay here. That is food to be added to the supply already in. — Coffee 3; Quaker Oats 1, Canned fruit 3; vegetables 20; Dried apples 5, Canned milk 4, Canned beef 50; Whiskey 5.

Mon. 7 4 km. SW Barends Camp Idenburg R. Netherlands New Guinea. 850

172 mouse traps, 216 rat traps, 27 steel traps + Melomys. From the camp above 231 snare attended yielding 1 Thomomys.

Today tended traps, prepared specimens, and made an oven for drying specimens.

Road came down bag and baggage
this morning from the 1200 m. Camp.
We are completely moved out of that camp, that
if it stands abandoned.

Transport of 20 Doko + soldiers left this
morning for Benford Camp.
Weather: Last night rain. Today overcast
and fog, with occasional small drizzle.

Mar 8 4 km SW Benford Camp Idenburg R. Netherlands New Guinea 850 m.
172 mouse traps, 216 rat traps, 26 steel traps,
87 snares - 1 Melomys, 1 Hydromys, 1 Chomys,
2 (1 juv.) Peromyscus.

This morning tended traps, prepared
specimens; the rain prevented any field work. Afternoon
went hunting down the river. It is about
20 to 40 ft wide with large gravel banks
and cut away forest edges. Corn grass is common
on the upper portion of the gravel banks. The
lower flood plain shows that there is at
times considerably more water flow than
at present.

Weather: Mist - light rain all morning.
Afternoon high then overcast which cleared
in by 4:50 with rain.

Mar 9 4 km SW Benford Camp Idenburg R. Netherlands New Guinea 850 m.
172 mouse traps, 216 rat traps, 27 steel traps
141 snares. - 3 Melomys, 2 Peromyscus, 1 Chomys,
3 (2 juv.) Echymipus.

Snares at 1200 m. camp tended. 231 snares x 2 days -
1 Phalanger, 1 Phascogale, 2 Peromyscus.

This morning tended traps, prepared specimens,
and took a short hunt up the river. Examined
both sides of the river up 2 km. Few rat
signs. Badly mutilated by palm bark eaters.

This afternoon Kells, Belender, van Arden,
patrol, and 9 Papuans came into camp
from the Segie. All in good health and happy.
The papuans are not unlike those from

General Account

the Sele River region. Their dress and ornaments were much the same. Their appearance and action as well as their language is not unlike that of our friends from the 2200 m. camp. (Mel. P.). They had 5 dogs with them two of which we purchased, the small one for 5 shells and the larger one for 1 large knife.

Early evening watched for bats in camp clearing, along river, and in second growth forest. A few were seen (4 or 5) but impossible to shoot them.

Late evening went hunting with flash light. Hunted along south east from camp. Saw one small Melomys it was running along the forest floor taking advantage of the small runways through the thick undergrowth. When disturbed it sought retreat among the litter of freshly fallen ferns rather than climbing. Shot 1 Palangus (see notes.)

Weather: Overcast with about 1 h. of sunshine just forenoon. No rain.

Mar. 10 4 Km. SW Berland Camp Idenburg R. Netherlands New Guinea 850 m.

172 mouse traps, 216 rat traps, 27 steel traps

207 snares - 1 Melomys, 1 Palangus shot. 2 Caris bought from native.

Snares at 1200 m. camp tined 231 snares - 0.

This morning tined traps and prepared specimens. Afternoon finished preparing specimens and searched over section of the flood plain below camp for fruiting Eugenia.

Weather: Overcast except for period from 10:30 to 12:00. Heavy rains about 4:00 and evening.

Mar. 11 4 Km. SW Berland Camp Idenburg R. Netherlands New Guinea 850 m.

172 mouse traps, 216 rat traps, 27 steel traps.

266 snares. - 1 Peromyscus. Caught by convict 1 Cysticercus.

This morning tined traps, prepared specimens. This afternoon went hunting up the river. Taken ill had returned to spend remainder of day in bed. Stomach upset.

Weather Overcast with breeze late morning and

early afternoon. Late evening rain.

Mar. 12 #Km. SW Bernhard Camp Idenburg R. Netherlands New Guinea 850m.

172 mouse traps, 216 rat traps, 27 steel traps -
318 snares - 1 Chomys, 2 Melomys. Shot 1 Phascogale, Inglis's Canis

From 231 X2 ^(dog) snares at 1200m. camp - 1 Chomys.

Remained in camp all day recovering from yesterday's illness. The boys tumbled traps, prepared specimens and reset 27 steel traps at the ridge north east of camp.

Today 5 Papuan were in with 4 dogs for trade. We purchased 2 of the best specimens and prepared them. They remained about camp for about 1 more hour trying to find customers for their unpurchased dogs and then left as they came.

Evening packed 2 boxes of specimens for tomorrow's transport down to the Bernhard Camp.

Late evening went out jacking. Bats (small) were the only mammals seen. Heard dogs barking in the distance, direction toward 1200m camp. There are very few ^{small} bats to be seen out and only saw one. I heard the flapping of wings of the large fruit bats.

Weather. Overcast most of the day.

Mar. 13 #Km. SW Bernhard Camp Idenburg R. Netherlands New Guinea 850m.

172 mouse traps, 216 rat traps, 27 steel traps,
371 snares. - 1 Melomys.

This morning tumbled traps, prepared specimen, skinned dog skin. This afternoon reset 158 rat traps. Rain kept us in the early part of the afternoon.

This morning, ^{for} van Arden and transport of 33 Dyaks, 5 convicts, + 5 soldiers left for Bernhard Camp. They took out specimens to meet the plane on the 15th.

I sent down the following
Box #32 - mammals

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Box 77 mammals
1 cartridge box containing skulls.
3 small tin aleostatics.

Weather: Overcast with occasional small drizzle this morning until 10:30. 10:30 to 12:00 heavy rain. Rain 1:00 to 2:00. 2:00 - 5:00 overcast.

Mar. 14 4 km. SW Bernhard Camp Idenburg R. Netherlands New Guinea 850 m.
172 mouse traps, 216 rat traps, 27 steel traps,
409 snare - 1 Melomys.

From 231 snare x 2 days at 1200 m. camp -
1 Echymipera.

This morning tended traps, prepared specimens, and spent 2 hrs searching on the ridges below camp for locality in which to set traps. This afternoon set 101 rat traps south of camp along an Agathis ridge. It's a good looking locality.

This morning Sergeant Critsen, 2 soldiers, 1 convict left for Bernhard Camp.

Weather: Overcast with frequent rains. Heavy wind this evening.

Mar. 15 4 km. SW Bernhard Camp Idenburg R. Netherlands New Guinea 850 m.
155 mouse traps, 209 rat traps, 27 steel traps,
442 snare - 1 Echymipera, 3 Peromyscus, 1 Melomys.

This morning tended traps during the flight of the Guba to Idenburg, later prepared specimens. Afternoon set 155 mouse traps. I am having trouble with the mouse traps. They are breaking at the rate of about 2 per day.

This afternoon transport came in from Bernhard Camp bringing fresh food, mail, and special orders.

Weather: Morning until 10:30 light broken overcast with much sunshine. From 10:30 on overcast. 4:30 to late evening heavy rain and very heavy wind.

Mar. 16 4 km. SW Bernhard Camp Idenburg R. Netherlands New Guinea 850 m.
155 mouse traps, 209 rat traps, 27 steel traps

508 snaws - 1 Dorcopsis, 1 Peroryzetes, 1 Pharougal,
1 Pseudohydromys, 3 (2 Juv.) Echymipera, 1 Melomys.

Snaws at 1200 m. camp total 231 snaws ^{X2 days} - 0

Tended traps and prepared specimens this morning.
Afternoon searched for new trapping locality along
small stream and south west of camp.

Terrill, Fox and transport arrived
late this morning. Bought up detail parties provisions.

Early evening went bat hunting along lower
edge of flood plain, along river. No bats seen.

Late evening went jacking 6 frogs.

Weather: No rain; sunshiny with intermittent overcast.

Mon. 17 4 Km. SW Bernard Camp Idenburg R., Netherlands New Guinea 850 m.

155 mouse traps, 209 rat traps, 27 stick traps

573 snaws, - 1 Melomys, 2 Peroryzetes.

The Chelanga, ^(skin-shed) was sent up this morning by
van Arden from Bernard Camp.

This morning tended traps + prepared specimens.
Rain kept me inside remainder of day.

Transport arrived from Bernard Camp with
gasolines, paper, axes, furniture for American party.

Weather overcast with frequent rain.

Mon. 18 4 Km. SW Bernard Camp Idenburg R., Netherlands New Guinea 850 m.

155 mouse traps, 209 rat traps, 27 stick traps,

573 snaws - 2 Melomys, 2 (1 Juv.) Echymipera.

Snaws at 1200 m. camp total 231 snaws X 2 days - 0.

This morning tended traps, prepared
specimens and took a short hunt up river.

Afternoon remained in camp awaiting report from
snaws at 1200 m. camp and for the weather to
clear. Late afternoon went down to examine some fruiting
tree and the possibility of cuscus feeding on them.

Evening out for bats. Many seen but unfortunately
the only one shot fell in river and was lost.

Weather: Overcast in morning until 10:00. 10:00
to 11:30 sunshiny. Overcast from 11:30 on with intermittent
light shower. Evening heavy rain. Rain continued most of
the night.

General Account

Hard left this morning for Burnland Camp. He plans to be away for 4 or 5 days. Taking advantage of the high water and the possible concentration of birds which may occur on the higher ground.

Mar. 19 4 km SW Burnland Camp Idenburg R. Netherlands New Guinea 850

155 mouse traps, 209 rat traps, 27 stick traps,
598 snare - 1 Melomys, 1 Phascogale, 1 Phalanger,
1 Peroryzeta.

Morning checked traps, and prepared specimens. Afternoon went down the Δ river, rain prevented going very far a seeing very much. Evening hunted for bats, none seen.

Weather. Overcast with light rains in morning and heavy rains in late afternoon. Rained most of the night.

Mar. 20 4 km SW Burnland Camp Idenburg R. Netherlands New Guinea 850.

150 mouse traps, 209 rat traps, 27 stick traps,
643 snare - 4 Melomys, 1 Phascogale.

Snare at 1200 m camp checked 231 x 2 days - 0.

This morning checked traps, prepared specimens, and went for a short hunt along the lower flood plain. Afternoon also went in this same region for a short time. Evening shot for bats in an opening at the upper edge of the flood plain. Three individuals seen one of which fell when shot but could not find it. Evening shot a Pseudochinus while jacking.

Weather. Overcast breaking in late morning. Drizzled during afternoon.

Mar. 21 4 km SW Burnland Camp Idenburg R. Netherlands New Guinea 850 m.

150 mouse traps, 209 rat traps, 27 stick traps,
670 snare - 1 Phascogale, 4 (2 juv.) Echymipera,
1 Melomys, 1 Thomomys. Shot 2 (1 juv.) Pseudochinus.

This morning checked traps + prepared specimens. Afternoon spent out with the Dyaks making snare.

There were two Pygones in camp this late morning each with a dog to sell. They did

not make the sale and soon left.

Spent the evening net, shating and jacking. Obtained 2 ^{individuals} new for this camp.

Weather: Morning overcast with occasional hicks; afternoon overcast with occasional light rain.

Mar. 22 4th S.W. Bernard Camp Okmbung R. Netherlands New Guinea 850m.

150 mouse traps, 209 rat traps, 27 stick traps,

742 snaws - 1 Melomys, 3 (2 Juv.) Cebomyzina,

2 Peromyscus

Yesterday evening shot

1 Myctimeris, 1 Pipistrellus.

X (see below)

Morning spent tending traps and preparing specimens. Afternoon reset 27 stick traps in the mucky forest east of camp.

Soldiers brought in a cassowary today.

A young ♂. Its head and wing were saved for specimens.

Weather: Morning overcast with light rain; afternoon overcast with occasional small hicks.

Plat. Traps at 1200m camp attended today.

251 snaws x 2 days - 0

Mar. 23 4th S.W. Bernard Camp Okmbung R. Netherlands New Guinea 850m.

150 mouse traps, 209 rat traps, 27 stick traps,

769 snaws - 1 Melomys, 1 Phalanger, 2 Phascogale.

Shot 1 Phalanger. Caught in insect net, 1 Melomys

This morning packed specimens for shipment to Hollandia and prepared specimens brought in by collectors. Afternoon reset 108 rat traps

along the far side of the river above camp.

Have hopes of catching some water rats there.

From the radio learn of very high water on Okmbung. Thinking in planning to leave tomorrow to construct new camp at the edge of the hills.

Weather: unsettled, broken overcast, occasional light rain.

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Mar. 24 4 km SW Bernhard Camp Idenburg R. Netherlands New Guinea 850 m.

150 mouse traps, 209 rat traps, 27 stick traps,
812 snare - 3 Melomys, 1 Hydromys, 1 Phalanger,
1 Echymipera, 1 Peroryzomys, 1 Dorcopsis.

Traded snare at 1200 m. camp 231 snare x 2 days - 0

Morning traded traps, and prepared specimens.
Afternoon reset 99 rat traps and developed pictures.
The traps were set ~~at~~ around bordering the
Agathis forest below camp.

Traded left this morning with all
available men to construct a new camp above
the Idenburg floods at the edge of the
foothills.

Weather Early morning dark overcast, clearing
mid morning with breaks and frequent sunshine.
Afternoon overcast. Evening heavy rain and wind.

Mar. 25 4 km SW Bernhard Camp Idenburg R. Netherlands New Guinea 850 m.

150 mouse traps, 287 rat traps, 27 stick traps,
812 snare - 3 Melomys

Morning traded traps, prepared specimens. Afternoon
reset 125 mouse traps. This has is now N W of camp
on the ridge above the flood plain. It is a
second growth forest with rather thick undergrowth.
Evening shot 2 bats. It was a mild evening and many
bats were seen flying about. Late evening went jacking
no mammal seen but managed to capture some
frogs new to the collection. The boys saw several
small rats one of which they shot.

Weather: No rain, broken overcast.

Mar. 26 4 km SW Bernhard Camp Idenburg R. Netherlands New Guinea 850 m.

125 mouse traps, 287 rat traps, 27 stick traps,
832 snare. - 4 Melomys Shot 2 Emballonura,
1 Pogonomys.

Morning traded traps and prepared
specimens. Being Sunday the early afternoon
was spent in rest and reading. Later on in the
afternoon packed up a black box of
specimens for transport down tomorrow.

The following is a list of specimens to go down with tomorrow's transport.

Black box # 53, large + med. mammals.

Green sec. containing ^{box of} flat skins

2 small cans alcoholics.

A transport came in this morning with 7 carriers, to return tomorrow with specimens.

Weather - Morning broken overcast; afternoon continued rain.

Mar. 27 4 Km SW Bernhard Camp Idenburg R., Netherlands New Guinea 850 m.

* 125 mouse traps, 207 rat traps, 27 steel traps, 832 snares - 1 Phascogale, 1 Dorcopsis, 1 Phalanger,

1 Thomomys.

Tended snares of 1200 m. camp 231 snares x 3 days -

7 (6 Juv.) Phascogale

This morning tended traps, and prepared specimens. Afternoon spent in the field in search of suitable trapping localities along the river and for fruiting Cycas.

This morning Noord returned from the Idenburg. He reports good collecting on Idenburg during the high water. He was particularly successful in the marshy regions. He states that he has prepared 3 Thomomys and 6 Phalanger.

Early evening was out bat shooting. Many bats flying, apparently 2 sp., but was unable to hit them. Late evening out jacking. Saw one large rat but it escaped in cover of forest undergrowth.

Weather: No rain. Sunken overcast with sunshin partially during the late morning.

Mar. 28 4 Km SW Bernhard Camp Idenburg R., Netherlands New Guinea 850 m.

125 mouse traps, 207 rat traps, 27 steel traps, 845 snares - 1 Thomomys, 1 Ceroryctes

Morning - tended traps, and prepared specimens. Afternoon spent in search of suitable trapping localities along the ridge

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to the north of camp. Evening shot #3 bats. Late evening net jacking, nothing seen. Boy's shot, Pseudochinus.

Weather: light rain early morning, clearing mid morning; occasional clouds, most sunnier remainder of day. Evening cool light thru overcast.

Mar. 29 4 Km. SW Bernhard Camp Idenburg R. Netherlands New Guinea 850m.

125 mouse traps, 207 rat traps, 27 steel traps,
845 snare. — 2 Calymene. Shot - 2 Euballomma,
1 Pipistrellus, 3 (2 So.) Pseudochinus.

Shares traded at 12.00 m. camp 251 snare x 2 days - 0.

This morning started traps, prepared specimens, and went up to the 1200 m camp. I was able to check over part of the side of snare and spent some 2½ hours watching the bird of Paradise display ground. There were no birds about although the show was then showing occupancy.

This evening shot 1 bat. The flight ~~begin~~ on as usual about 6:20 but stopped all of a sudden at 6:32. The sudden change was perhaps due to the coming of rain which broke soon 10 min. later.

Transport arrived this afternoon about 5:00 from Bernhard Camp bringing with it flour, rice, mail, sugar. Several come up tomorrow with remainder of fresh food brought in by the Gule today.

Weather: clear with occasional cloud until about 3 when it came overcast. squall at 5:15 and heavy rain about 7:00 to 8:30+.

Mar. 30 4 Km. SW Bernhard Camp Idenburg R. Netherlands New Guinea 850m.

125 mouse traps, 207 rat traps, 27 steel traps,
875 snare. — 1 Peromyscus, 1 Calymene, 1 Melomys,
1 Dorcopsis. Shot 1 Pipistrellus.

This morning started traps and prepared specimens. Afternoon looked for new trapping locality along the upper edge of the flood plain

on the far side of the river above camp.
Evening shot, bat. Spent several hours
during late evening out jacking but
without results.

Weather: No rain; dry, much sunshine
during middle part of the day. Broken overcast
morning and evening.

This morning Coy. Sevier, Hills, and
transport arrived in camp brought up
with them books and potatoes for American
party. They report all well and things in
good order at Bernhard and the camp at
the foot of the hills.

Mar. 31 4 Km. SW Bernhard Camp Idenburg R., Netherlands New Guinea 850m.

125 mouse traps, 207 rat traps, 27 stick traps,
931 snares - 4 Melomys, 1 Echymipera, 1 Thomomys.
Shot - 1 Emballonura.

This morning checked traps and prepared
specimens. Afternoon inspected prepared ^{snare} traps,
trap line. Found that the Dyak has collected
and marked suitable runways. Late afternoon
took care of alcoholic material. Evening out for
late but failed to get any. Later out jacking
and procured 2 (Nov.) Phalanger.

Weather: Broken overcast with much sunshine
during mid day. No rain until 8:30 P.M.

Apr. 1 4 Km. SW Bernhard Camp Idenburg R., Netherlands New Guinea 850m.

125 mouse traps, 207 rat traps, 27 stick traps,
987 snares - 2 Peromyscus, 2 Echymipera,
4 (3 Nov.) Dasyurus, 1 Melomys. Shot, 1 Thomomys,
2 (1 Nov.) Phalanger.

^{231 snares x 3 days}
This morning checked traps and prepared
specimens. Late afternoon reset 97 rat
traps along the river bank below camp.
Evening out for late but failed to get any.
Late evening out jacking. Shot, 1 Pseudochirius.

About noon Bezaris, van Arden and
transport came in camp.

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Deyon is taking over my radio duties while he remains in this camp.

Weather: Broken overcast in morning. Rain during afternoon clearing about 4:00. Evening overcast.

Apr. 2 4 Km. SW Burnard Camp Idubung P. Netherlands New Guinea 850 m
125 mouse traps, 205 rat traps, 27 stick traps,
987 snares - 1 Rattus, 1 Phascogale, 1 Lorentzimus,
1 Melomys, 1 Hydromys, 2 (1 juv.) Peromyscus. Slat
1 Pseudochinus.

This morning tended traps, and prepared specimens. This afternoon remained about camp making notes and generally doing nothing for today is Sunday. Evening out for bats and obtained 1. Last evening out jacking. Saw one cuscus but it escaped. It was probably one of the large gray Phalangerus. It was first seen climbing up a bit of jungle rope. After firing several shots it disappeared in the foliage of a large tree. It climbed with remarkable ease and rapidity and in not the slow motion climbing of the Macrotis.

Weather: Broken overcast during day with much sunshine during midday. Rain during night starting about 9:00.

Apr. 3. 4 Km. SW Burnard Camp Idubung P. Netherlands New Guinea 850
125 mouse traps, 205 rat traps, 27 stick traps,
987 snares - 3 (1 juv.) Peromyscus, 1 Uromys, 1 Dorcopsis,
1 Melomys, 1 Hydromys, 1 Dactylopsax, 1 Rattus.
Slat, Entallomma.

This morning tended traps and prepared specimens. Afternoon reset 104 rat along the river below camp. Evening out for bats and later out jacking. Weather: Morning broken overcast. Afternoon intermittent rain clearing about 3:30. Last evening heavy rain.

Apr. 4 4 Km SW Bernhard Camp Idenburg R. Netherlands New Guinea 850 m.

125 mouse traps, 203 rat traps, 27 steel traps,
998 snares. — 2 (Nov.) Dorcopsis, 1 Thomomys.

Morning tended traps and prepared specimens.
Afternoon reset 92 mouse traps on a low ridge
and along small creek at the SW of camp. Evening
out for bats and later set gophering but nothing
obtained.

The morning Fox, Terint, Kald, Buzovic,
and transport left for Bernhard camp on the
small camp at the foot of the hills. They
will remain there until they have for
Hollandia.

This afternoon 2 persons came in with 4
dogs to sell. They did not however sell any of
their dogs but I did buy Manio
a sweet potato like thing which is to be
used as rat bait. They remained
about camp emulsifying us and evening
crossed the river to their night
shelter. These natives were not only
interested in selling their dogs but also
in obtaining permission to take 2
discarded axes which they had found at
the 1200 m. camp. Honesty is the best
policy and a primitive one.

Weather: Clear with occasional long clouds.
Evening clear.

Apr. 5 4 Km SW Bernhard Camp Idenburg River Netherlands New Guinea 850 m.

92 mouse traps, 203 rat traps, 27 steel
traps, 1033 snares — 1 Thomomys, 1 Dorcopsis.

Morning tended traps, prepared specimens and
finished odd jobs about camp. Afternoon spent poisoning
fish with some derris powder which Fox left in camp.
Evening out for bats again but only a very
few seen. Out packing in late evening.

Weather: Cloud, overcast in morning. Brecking late
morning. Afternoon broken shifting clouds.

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Apr. 6 4 km. SW Bernard Camp Idubung R., Netherlands New Guinea 850 m.

92 mouse traps, 203 rat traps, 27 snake traps,
1075 snare - 4 Melomys, 1 Phascogale, 1 Hydromys.

This morning tended traps, prepared specimens, and packed alcoholics for shipment. This morning afternoon went for a short hunt down the river. Spent rest of afternoon packing mammals for shipment. The evening went out for bats and jacking. Very few bats seen, and no mammals seen by torch light.

This morning Brass left for Bernard Camp with bag and baggage. Actually he is going to a small subsidiary camp at the foot of the hills some half hour distance from Bernard Camp.

Weather broken overcast with sunshines during midday. Evening rain.

Apr. 7 4 km. SW Bernard Camp Idubung R., Netherlands New Guinea 850 m.

92 mouse traps, 203 rat traps, 27 snake traps,
1075 snare - 4 Melomys, 1 Uromys, 1 Dasyurus,
2 Echymipera.

This morning tended traps, and prepared specimens. Remainder of day spent in packing specimens and equipment for trip to Bernard Camp tomorrow. All traps taken up and packed.

Weather: Broken overcast with heavy rain mid afternoon.

Apr. 8 Bernard Camp Idubung R., Netherlands New Guinea 850 m.

No traps.

Left 850 m. camp this morning at 7:00 and arrived here at 9:00. Road and I had 27 carrier loads ranging in weight from 18 to 25 kg.

Following is list of my equipment with weight. -
4 snares traps 22 kg each; Can # 27, 6 kg; 2 cartridge boxes 2½-3½;
Box # 41, 8 kg; Large can alcoholics, 12 kg; Rods, 20-22 each;
Box # 4, 15 kg; Box # 3, 16; Sae, 25 kg; Box 58, 21 kg.

Our camp here is actually not Bernard Camp but rather a small subsidiary camp

at the base of the first hills some 1/2 hr. from S.W.
from Bernard Camp. It is situated on a small,
rocky ridge on the east bank of the second
stream from Bernard Camp. This camp was
constructed for collecting and to be used
by entire party if Bernard Camp itself became
too deep in water. Tex, Brass, and I are
at present staying here collecting Rand
having gone into Bernard Camp.

Weather: Dusk overcast with heavy rain in
evening.

Set all traps this afternoon consisting of 267
rat traps, 79 mouse traps, 27 snake traps.

Apr. 9 Bernard Camp, Idenburg R., Netherlands New Guinea 850m.

79 mouse traps, 267 rat traps, 27 snake traps, —

1 Melomys

Part of the 1075 mouse (400 \pm) ^{x2 days} at the 850m.
camp tent — 1 Dorymys, 1 Echymipera.

This morning tended traps, prepared specimens,
and constructed oven for drying of green specimens.

Afternoon went to Bernard Camp. Checked over
provisions and made up order for full
quantity for 50 days. Also brought into
this camp food for 10 days for Brass and
myself. Brought back specimens which Rand
had prepared for cataloguing.

Weather: overcast with occasional breaks.

Apr. 10 Bernard Camp, Idenburg R., Netherlands New Guinea 850m.

79 mouse traps, 267 rat traps, 27 snake traps —

1 Melomys, 1 Echymipera.

This morning tended traps, prepared
specimens, and catalogued specimens prepared
by Rand. Afternoon out fishing with Jerry
along a small stream before it reaches
the Idenburg flood waters. (See alcoholics)

Evening out for late and late out with
lamp jacking. Did not get any mammals.

Weather: Dusk overcast clearing in midday.

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Apr. 11 Bernhard Camp Idenburg R. Netherlands New Guinea 80 m. ^{78 m. above}

79 mouse traps, 267 rat traps, 27 steel traps

This morning tended traps, took care of alcoholic specimens and went to Bernhard Camp for Alcohol, Formica, Sabalis, Cigarettes, New Paper, etc.

Afternoon explored portions of lower ^{exposed} flood plain near landing.

Evening out for bat and later out with lamp. Shot & fruit eating bat by lamp light.

Weather: Broken overcast clearing in afternoon. Light rain early morning.

Apr. 12 Bernhard Camp Idenburg R. Netherlands New Guinea 80 m. ^{130 m. above}

79 mouse traps, 267 rat traps, 27 steel traps

Yesterday evening shot 1 Dobsonia. Road went over 1 Dobsonia, 1 Pteropus. Afternoon shot 3 Emballonura.

This morning tended traps, prepared specimens, and did odd jobs about camp. Afternoon went hunting along the upper edge of the flood plain where it meets the mountains.

There are several good trap sites in this area especially along the small stream sides. Shot 3 bats. Evening out bat shooting and later out jacking. No mammals obtained.

Weather Early morning overcast; mid morning hushing; remainder of day clear with occasional clouds.

Apr. 13 Bernhard Camp Idenburg R. Netherlands New Guinea 75 m. ^{170 m. above}

79 mouse traps, 267 rat traps, 27 steel traps

Shot 8 Hipposiderus this afternoon.

This morning tended traps and went out hunting on the flood plain. Afternoon cut track along river for night hunting and prepared specimens. ^{at 5 o'clock traps} Evening out for bat.

Weather: overcast clearing during mid day, evening rain which continued through the night.

Apr. 14 Bernhard Camp Idenburg R., Netherlands New Guinea 75 m.

57 mouse traps, 267 rat traps, 27 steel traps
222 snares - 1 Thomomys, 1 Hyomys.

Morning prepared specimens and packed specimens for shipment to Fullerton tomorrow. Evening we were invited to the main camp for dinner and entertainment. It was "a bit of the O.K.": big drink, big eat, big talk and everyone leaves happy.

Weather: rain in morning until about 10:30. Remainder of day broken overcast.

Apr. 15 Bernhard Camp Idenburg R., Netherlands New Guinea 75 m.

57 mouse traps, 267 rat traps, 27 steel traps, 253 snares. - 1 Thomomys, 1 Peromyscus, 1 Echymipus. Killed 1 Phalanger.

This morning went to Bernhard Camp to post the mail, remainder of morning spent in preparing specimens. This afternoon reset 259 rat traps.

Today the Guba came into the lagoon of Bernhard Camp. It made 2 trips taking at Fox, Teerink, Foxo 3 assistants + 1 cook, 1 brigade of soldiers, convicts, and Dyaka a total of about 28 men. It brought in mail, fresh food stuffs and orders.

Weather: Broken overcast clearing during mid day.

Apr. 16 Bernhard Camp Idenburg R., Netherlands New Guinea 75 m.

57 mouse traps 259 rat traps, 27 steel traps, 268 snares - 2 Thomomys, 1 Dasyurus. Shot 3 Phalanger.

This morning traded traps and prepared specimens. Afternoon skinned out large ^(134 lb) crocodile which was shot by Reed at Bernhard Camp. Evening out but shooting and later out jacking.

Weather: Broken overcast

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Apr. 17 Berndt Camp Idenburg R. Netherlands New Guinea 75 m.

57 mouse traps, 259 rat traps, 27 stick traps
328 spars - 3 Dasyurus, 4 Echymipera.

Shot 2 Dobsonia, 1 Sus.

This morning tended traps and prepared specimens. Afternoon went to Berndt Camp for supplies and prepared specimens. All seem well and happy at the main camp. Road reports good collecting. He saw 2 Dobsonia being chased out of a hollow tree by parrots.

Weather: Overcast. hazy during mid day; evening rain.

Apr. 18 Berndt Camp Idenburg R. Netherlands New Guinea 75 m.

57 mouse traps, 259 rat traps, 27 stick traps.
340 spars - 0

Shot 4 Emballonura

This morning tended traps, and hunted along the flood plain. Afternoon hunted on lower flood plain. Shot 4 bats; prepared them as specimens.

Boxes moved by road baggage to the main camp. He intends working out from that camp by row.

Evening out for bat and taken out jacking. There are many ^(3 or 4?) bats flying about in the evening. Most individuals seem to feed below the forest crown in the leaf second stage or lower crown vegetation. Jacking at night has been very poor. I usually spend from 7:30 to 9:30 in the field moving slowly watching trees and undergrowth for signs of movement of vegetation. Up to date I have seen what I believe to be 1 Dasyurus.

Weather: Overcast with large breaks during mid day; late night rain.

Apr. 19 Bernhard Camp Idenburg R. Netherlands New Guinea 75 m.

57 mouse traps, 268 rat traps, 27 stick traps,
418 snares - 1 Echymipera, 1 Canis.

Shot 1 Osbornia, 1 Pogonomys

Yesterday morning prepared specimens, and
went hunting along the water edge of
the lower flood plain. Afternoon reset
114 rat traps along stream side of upper
flood plain.

Weather: Overcast with small hucks during morning;
rain 11:30 and light intermittent rain afternoon;
heavy rain early evening.

Apr. 20 Bernhard Camp Idenburg R. Netherlands New Guinea 75 m.

57 mouse traps, 260 rat traps, 27 stick traps,
443 snares - 2 Echymipera, 1 Phascogale

Killed 1 Melomys. Shot 4 Emballonura,
1 Sus, 1 Hipposideros.

Morning tended traps prepared specimens
and went out hunting.

Afternoon reset 143 rat traps along the
river bank in the flood plain.

Weather: Broken overcast rain in evening.

Apr. 21 Bernhard Camp Idenburg R. Netherlands New Guinea 75 m.

29 mouse traps, 257 rat traps, 27 stick traps,
483 snares - 2 Echymipera

Morning tended traps, prepared specimens,
and went for a short hunt along lower
flood plain. Afternoon prepared (skinned) skin of
pig and went to Bernhard Camp for supplies.
Evening out for bats (hit 1) and later out
jacking (nothing seen except for bats).

Weather: Overcast with few hucks. Light
rain early afternoon.

Apr. 22 Bernhard Camp Idenburg R. Netherlands New Guinea 75 m.

29 mouse traps, 257 rat traps, 27 stick
traps, 520 snares - 4 Echymipera, 1 Melomys
Shot 1 Phalanger, 1 Pipistrellus.

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1 Merizotras, 2 Emballonura.

Today about camp preparing specimens, etc. etc.
 Evening out for bats, shot 1. Later out jacking
 no result; returned early because of heavy rain.
 Ten Archa in camp this evening. Told
 of the 2 places which we heard coming into
 the lagoon today. They are the gold mine
 places, Citron + Zilken (sp?), a German
 and a Navy place. Their plan is to
 bring into Bernard Camp 20 Dyaks, 10 foremen
 cordies, porties and ~~scientific~~ crew (geologist etc.)
 They will proceed up the Idenburg R.
 by canoe (our canoes) as far as the
 gorge and carry through the gorge and
 then build more canoes and proceed
 on up the river to their destination (?).
 Several days ago they attempted landing
 on the river some 80 km. above our camp.
 While they were successful in their
 attempt they found the water very
 swift and many logs and so later
 it unwise to make further landings
 there.
 Weather: Overcast with occasional small
 bushes; evening heavy rain.

Apr. 23 Bernard Camp Idenburg R. Netherlands New Guinea ^{75 m.}

29 mouse traps, 25 rat traps, 27 stick traps,
 570 snaws. — 3 Echymipera, 1 Phascogale.
 Shot 2 Emballonura, 1 Pipistrellus

Today tended traps, prepared specimens,
 and packed equipment for breaking camp.
 Evening out for bats.

Weather: Overcast, intermittent rain.

Apr. 24 Bernard Camp Idenburg R. Netherlands New Guinea ^{80 m.}

29 ^{mouse} ~~rat~~ traps, 257 rat traps, 27 stick traps.
 602 snaws — 1 Phascogale.

This morning broke camp and moved

to the main camp some 2 hrs.
distance (NW). Spent part of
the morning and most of the afternoon
in search of dry land along the
edge of the lower lagoon. Evening
out for bats.

Ertman and Zielhuis (Gold Mines) still
moving in men and equipment to our camp.

Weather: Overcast. Heavy evening rain.

Apr. 25 Bernhard Camp Idubung R., Netherlands New Guinea 50m.

602 snails - 3 (2 Nov.) Cyprina, 2 Pharyng.
Shot 3 Dehorina, #4 Hypsidurus.

This morning searched for suitable
trapping localities along dry banks of the small
river entering at the head of the
lagoon. There are a number of dry patches
of forest along the river bank itself which
should be suitable for snails.

Afternoon set 21 mouse traps, 253 rat traps,
27 stick traps. The mouse and rat traps
are set along the ^{west} edge of the lagoon south
of the narrow. After this still remains
a large strip of land which is not
inundated, although it rises in the
water and all will be under. The stick
traps are set along the lower mountain
slope S W of camp.

Weather Overcast with occasional rain. Nightly
rain. Water of Idubung still rising.

Apr. 26 Bernhard Camp Idubung R., Netherlands New Guinea 50m.

21 mouse traps, 253 rat traps, 27 stick
traps, 602 snails - 2 Cyprina.
Shot - 1 Pycnistella.

This morning tended traps,
prepared specimens and spent several
hours in the inundated forest to the
east ^{of the forest} of the lagoon. No mammals seen,
although some time was spent in poking

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about the ~~same~~^{*turn} clumps on the trees. One large fig tree looked through rather thoroughly.

Afternoon went in search of Phalanger which Mr. Horn had seen this morning. They were found in the second growth trees at the end of the lagoon; some 35 or 40 individuals.

Evening set for bats, obtained 2.

Weather: Broken overcast with nighty rains. Still high water; rising slightly.

Apr. 27 Berndt Camp Denburg R. Netherlands New Guinea 50m.

21 mouse traps, 253 rat traps, 27 stick traps,
652 snares — 2 Echymipera, 1 Hydromys, 1 Melomys
Shot — 1 Pyciastellus, 1 Emballonura, 18 Pteropus.

Day spent in preparing specimens. Evening out for bats.

Weather: Overcast with occasional breaks; rain in evening.

Apr. 28 Berndt Camp Denburg R. Netherlands New Guinea 50m.

21 mouse traps, 253 rat traps, 27 stick traps,
712 snares — 0
Shot 1 Pyciastellus, 3 (1 juv.) Phalanger, 1 Dobsonia,
11 Emballonura

This morning tended traps, prepared specimens, and spent 3½ hrs looking through the inundated forest in the bend of the lagoon.

Afternoon reset traps. 17 mouse traps,
234 rat traps.

Weather: Overcast with occasional breaks, foggy morning; evening rain.

Apr. 29 Berndt Camp Denburg R. Netherlands New Guinea 50m.

17 mouse traps, 244 rat traps, 27 stick traps,
762 snares — 1 Melomys, 2 Phascogale,
3 (1 juv.) Echymipera, 1 Phalanger.
Shot — 2 Emballonura

This morning tended traps, prepared specimens and spent several hours in the inundated forest south of the lagoon. Afternoon worked in the forest east of the narrow. Coming out for bats and bats out jacking. Shot 1 Zenaidura & 1 Thomomys.
Weather broken overcast with large break during midday. Heavy night rain. Water still rising.

Apr. 30 Bernhard Camp Idenburg R. Netherlands New Guinea 50m.
17 mouse traps, 2 \$4 rat traps, 27 steel traps,
799 snares - 1 Thomomys, 1 Hydromys, 1 Echymipera,
Shot - 5 (3 juv.) Phalanger, 1 Thomomys.
Killed - 1 Thomomys.

This morning prepared specimens and examined the mouth of the stream running in at the south of the lagoon and the smaller lagoon to the south of the main one. The stream side may prove profitable for hunting. Afternoon remained in camp. Coming out for bats and bats ~~not~~ spent 4 hrs out jacking. Shot 1 Thomomys.
Weather clear with few scattered clouds. Last night heavy rain. Water at standstill today; some up about 20 cm. last night.

The evening Archibald gave it as a rebroadcast of the talk he gave to the U.S. this morning. The rebroadcast was by record made in Berkeley and played for our benefit. Could understand only about 75% of it.

May 1 Bernhard Camp Idenburg R. Netherlands New Guinea 50m.
17 mouse traps, 2 \$4 rat traps, 27 steel traps,
853 snares - 5 (2 juv.) Echymipera, 2 Phascogale
Shot - 5 Emballonura, 1 Zenaidura, 1 Thomomys.
This morning tended traps, prepared specimens, and hunted in the sage swamp S.W. of camp. It is semi-inundated at present

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high water. There a number of pig tracks, and some signs of what appeared to be badineros. Afternoon spent about camp tending to notes and drying of specimens as well as writing for evenings work. Evening out for bats, shot 2. Late at jacking but returned early because of heavy rain.

Weather: Clear with scattered shifting cloud. Heavy rain this evening. Water rising slightly, 3 or 4 cm since yesterday afternoon.

May 2 Bernhard Camp Idenburg R. Netherlands New Guinea 50m.

17 mouse traps, 244 rat traps, 27 steel traps.

893 snails - 1 Phascogala 2 (1 Nov) Echymipera.

Shot - 1 Pteristellus, 1 Rhinomycteris

Early morning was spent in taking care of specimens. Remainder of day spent on trip up the Idenburg River. Went down the lagoon and out the mouth, followed up the east side of the river for several kilometers (1 kilometer past the island, and down the west side of the river. At frequent intervals I examined the broken strips of lead along the river edge for mammal signs. Although the soft clay would hold tracks there were none seen except those of birds. Found Pteropus hanging up in the cane grove. Counted 7 Papuan shelters. They were apparently temporary being used while cutting cane. The water is high, silty (light grey), and with scattered floating logs along the course. The bank along the river edge varied in height from 6 in to 2 ft above the water level. Current about 6 ft/sec.

May 3 Bernhard Camp Idenburg R. Netherlands New Guinea 50m.

17 mouse traps, 244 rat traps, 27 steel traps,

893 snails - 1 Phalanger, 3 (2 Nov) Echymipera,

Shot - 7 Pteropus, 1 Emballonura, 1 Phalanger.

This morning tended to specimens and went

hunting about the head of the lagoon.
I saw 3 of the large sp. of Thrygnus
hopping in the second growth vegetation
bordering the lagoon. They were near
where the colony was seen some days ago.
Also shot 1 Phalanger m. which was in the
large forest trees bordering the lagoon.
Returned afternoon. Late afternoon took
up the rat and mouse traps set at
the point. Tomorrow they are to be
reset at the other side of the river.

This morning 2 turtles were taken from
the snare set on the exposed land (above
the flood) at the mouth of the small
stream coming into the lagoon. It
was in a similar spot that Road found
the 3 eggs (alcoholic) several days ago.

Evening out for bats, shot 1. Later out jacking;
shot 1 Echymipera, saw large and small bats.

Weather: Breeze overcast; water down 10-15 cm.

May 4 Bernhard Camp, Idenburg R., Netherlands New Guinea 50 m.

27 stake traps, 943 snare - 0

Shot 1 Echymipera, 1 Dobsonia, 1 Emballonura

This morning early left with 8 Dyaks
for the forested bank of the Idenburg River
some 2 km up stream, across from the
mouth of the lagoon. Set 218 rat traps
and 2 mouse traps. The boys made snare
and I spent my time hunting through
the forest. The silt which covers the ground
holds the tracks well and so much
was to be learned from studying the
silt deposit. Cassowary tracks very common.
Bird tracks large and small common especially
about the cane breaks bordering the river.
Pig tracks a few. Rat tracks scarce, seen
only about the cane ~~break~~ thickets bordering
the river. Returned from the river this
evening too tired to go out jacking.

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Weather: Early morning low overcast; breaking during middle of day; evening rain. Water going down 20-30 cm.

May 5 Bernhard Camp Humberg River Netherlands New Guinea 50 m.

7 mouse traps, 218 rat traps, 986 snare.
27 stake traps - 1 Melomys, 1 Phascogale, 1 Echymipera.
Shot - 1 Phalanger.

This morning loaded traps the other side of the Humberg and reloaded the snare traps until about 11:30. Evening out for bats, shot 1 Thomomys.

Have heard of the gold-miner getting a Gward, soap in Sentani Lake after some spinia while logging. From here the plan a lake less. The effect of the 11 men which remain at our camp here is as yet undecided. Perhaps they will obtain another pelam, or perhaps they will go out to Pallendin. & in the Guba.

Weather: Early morning rain, clearing about 9:00; followed by shifting clouds. Rain in night.

May 6 Bernhard Camp Humberg R. Netherlands New Guinea 50 m.

7 mouse traps, 218 rat traps, 27 stake traps, 1055 snare - 2 Echymipera.
Shot - 1 Thomomys.

Today spent about camp packing specimens, etc, etc, in preparation for return to Pallendin. Evening out for bats.

Weather: Dusk overcast became heavy in morning with infrequent rain; clearing in middle.

May 7 Bernhard Camp Humberg R. Netherlands New Guinea 50 m.

7 mouse traps, 218 rat traps, 27 stake traps, 1055 snare - 4 ⁽¹⁵⁴⁾ Echymipera, 1 Hydromys, 1 Rattus.
Shot - 9 Embellonura, 2 Phalanger.

The day spent in packing specimens, skull and doing odd jobs in preparation for our move out to Hollarida.

Weather: Large shifting clouds, much sun, evening rain.

May 8 Burnard Camp Hentery R. Netherlands New Guinea 55m.

7 ~~rodent~~ traps, 218 rat traps, 27 steel traps,
10 55 snare. - 1 Uromys, 3 (1 juv) Chrysomera
(discarded)

Shot 2 Caballeros

Today finished packing specimens and equipment, to be taken to Hollarida tomorrow morning. Weight of my specimens, taxonomy plus special equipment was about 295 kg.

Weather: Much sun with shifting clouds; much sunshine.

May 9 Hollarida Netherlands New Guinea sea level.

14 traps.

This morning on the rat flight Road, J, and 17 others left Burnard Camp on the Guba and arrived in Hollarida. The Guba made a total of 2 flights today bringing out 19 persons plus cargo.

Today spent checking and packing birds, mammals, and debris for shipment to Comins.

May 10-21 Hollarida Netherlands New Guinea sea level.

14 traps.

These days were spent in packing and creating boxes of specimens, curio, and personal effects to be sent to New York. All is in order.

The Guba left on the 13th for Sydney taking with it the crew plus Roman and Rand. Rand and Archbold are going as far as Tauraville and then taking plane to Java. Guba going to Sydney for check before flight.

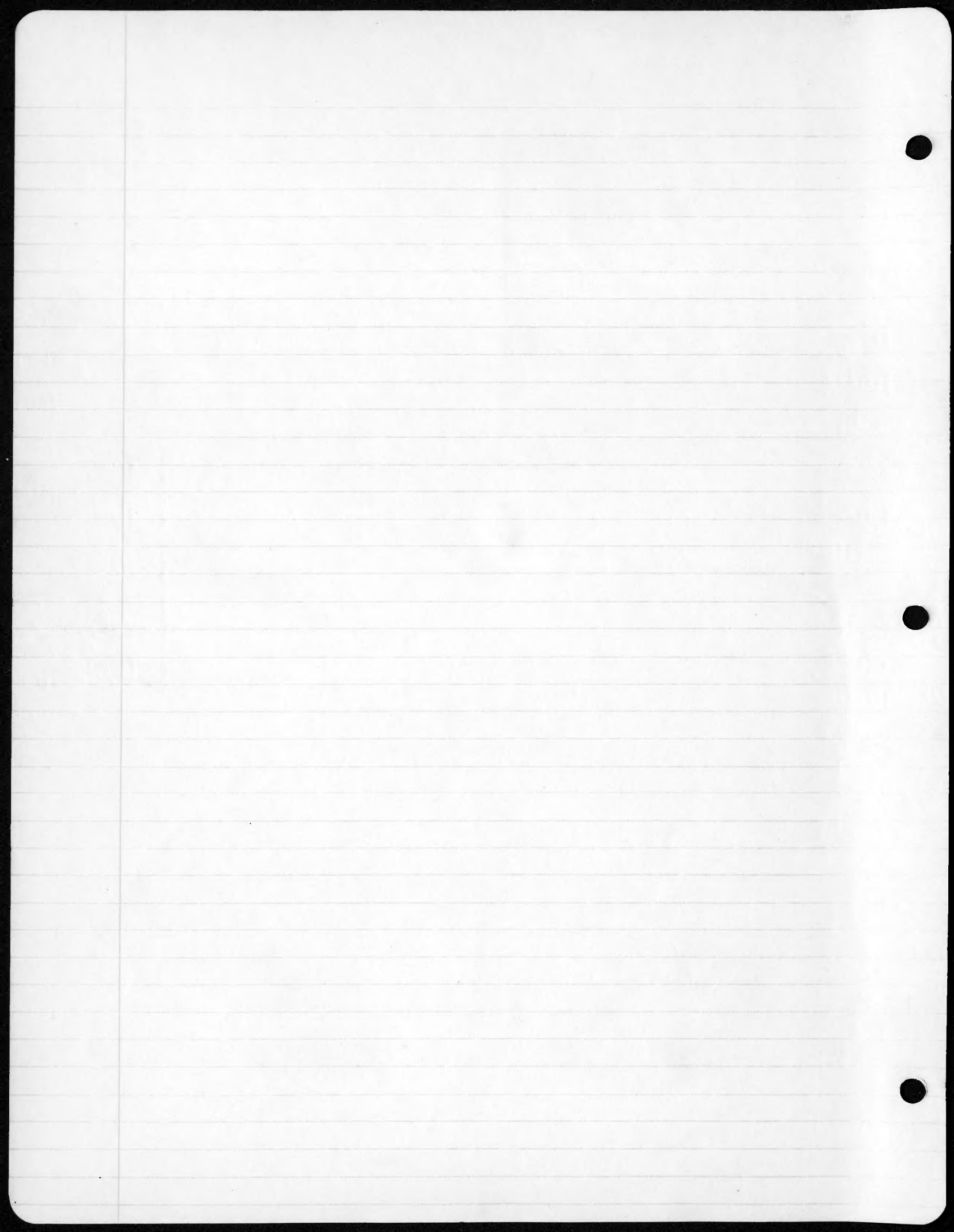
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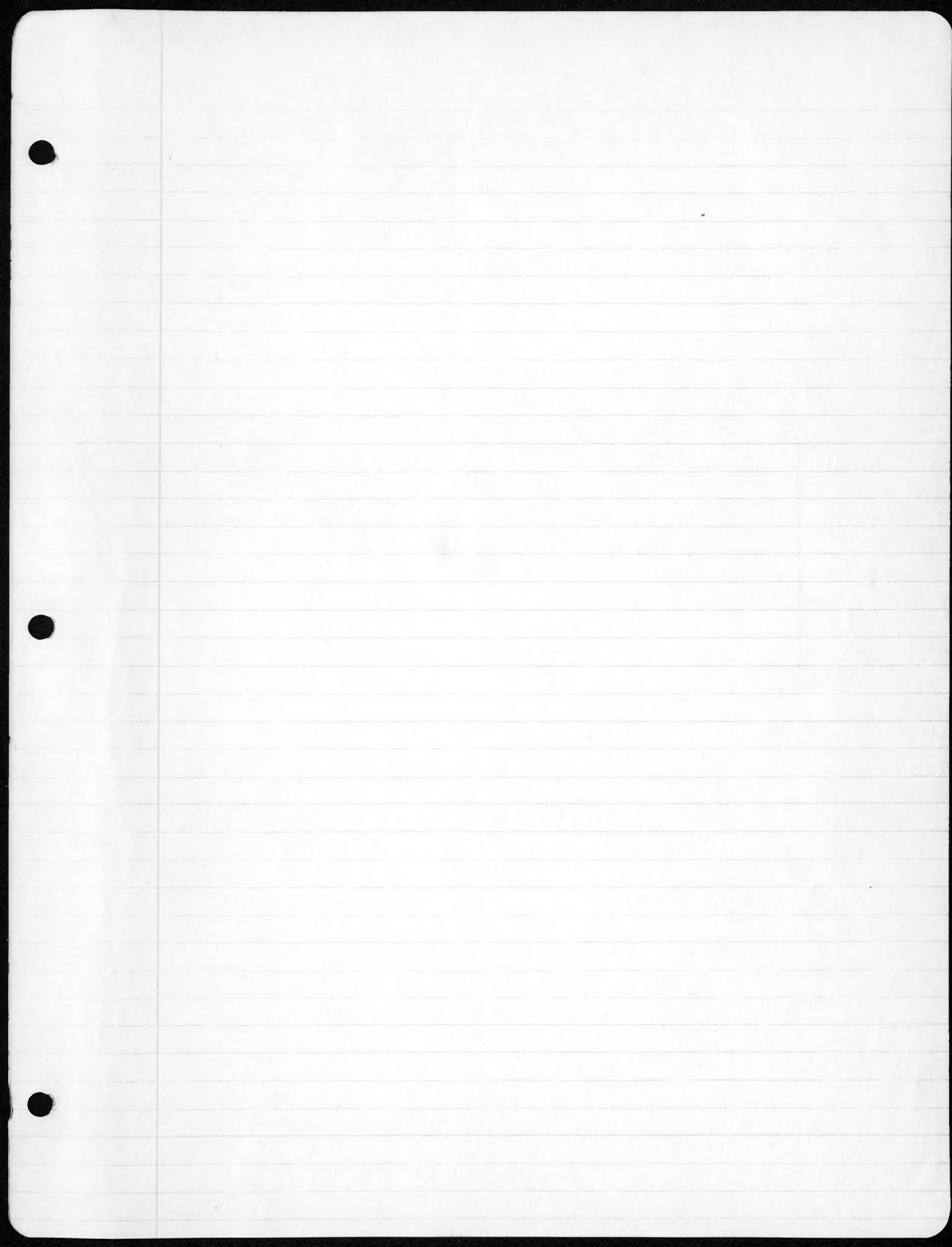
across Indian Ocean, Africa, and Atlantic to New York.

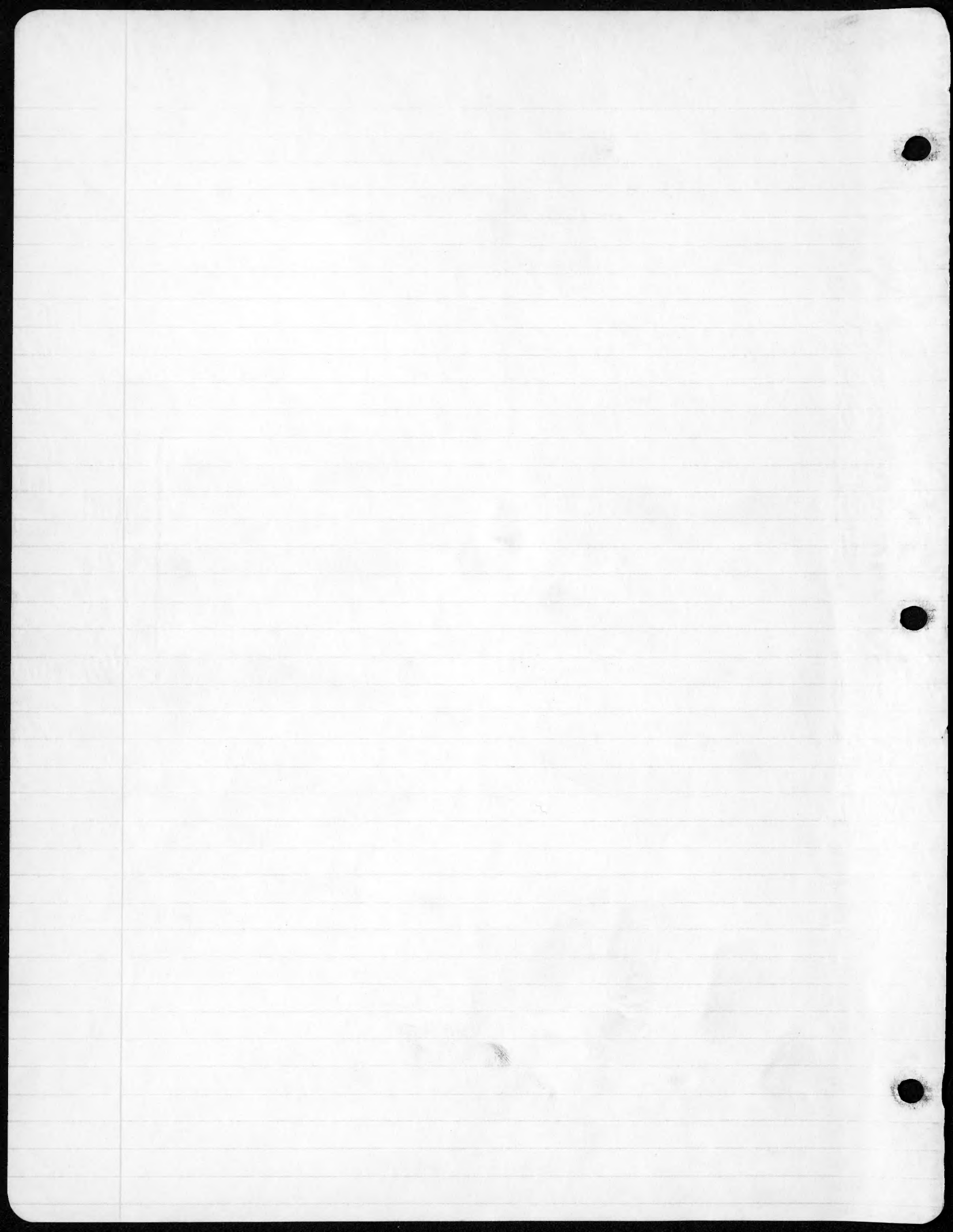
There are 6 tree climbing kangaroos in my charge which are to be exported alive. 1 is destined for Saeralaya Zoo, one for the Sydney Zoo, and four for American zoos. ~~Hope~~ They survive the trip through Australian winter.

May 22 K.P.M. steamer van Indoff
 Left Pellandia yesterday evening about 90:00. Anticipate a pleasant trip homeward.

End.







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