

5th. Macleod Expedition to
New Guinea

1956

March 4. Left Idlewild Airport, New York at
9:10 AM. on TWA flight 35 (Constellation G
plane. Bright ~~sun~~ clear morning after a rainy
night.

Arrived Chicago in 3 1/2 hours. Fair amount of
snow on ground back from the coast. Much ice on
Lake Erie.

The 8 3/4 hour flight from Chicago to San
Francisco, against a very strong wind. Arrived
in SF after dark. Had limited views of the Bay
W.S. in vicinity of The Embarcadero. The fumes
crossed from near Reno, almost entirely clouded
over. San Francisco temperature very mild
after the cool coast. Most men walking the
streets without jackets.

Left San Francisco Gate Hotel

Mar. 5. Left San Francisco 11:10 am on

Qantas flight 737 (Type Constellation
plane (Southern Moon). Arrived Honolulu
8:05 Pacific Coast time, 6:01 Honolulu
time. Smooth trip.

of 51 passengers from S.F. only few
plus from, in 1st, from Honolulu, and
going on to Sydney.

"Mama" passengers had a good dinner
at the Hotel Edgewater (ex Edgewood). Took
off at 10:10 pm. Had trouble with the aircraft
but most a few minutes after take off
I put back for a good landing at 6:10 pm.

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Coming in for a landing at Honolulu, we flew through swirling dark rain clouds over the top of the island. A wild sight. Very narrow razorbacks. Very narrow deep valleys. All green and rain-drenched in the late afternoon light.

Dr. G. Lindsay Gressitt, entomologist of the Bishop Museum, boarded plane at Honolulu. Going to Cairns, N. Queensland, area for a week, then on to New Guinea & the Solomons for 2 months. A specialist in beetles, Gressitt was in the Wissel Meuron & Central Highlands areas last year. This year he will work mainly in the Bopandella area in Papua, & on ~~to~~ New Britain, & Bougainville & Guadalcanal. George Strooker will help him at Cairns. I have given him a letter of introduction to Gilbert Bates.

March 6-7 (Crossed international date line)
Arrived Canton Island, Phoenix Group, at 8:30 am. Distance 1912 miles. Met there Krauss, U.S. DA entomologist returning to Honolulu after a vacation collecting visit to Tonga & Fiji. Also Mrs.

a trained entomologist from Kansas, married to an FCC official on the island, & also U.S. post mistress of the island. Canton a low atoll, dry & desolate & much disturbed by bulldozers. Said to have been no rain for 15 months. Rain water cisterns are dry. Distilled sea water the only remaining supply. The sparse plantings of littoral shrubs & coconuts are slowly browning off & dying.

Left Canton 8:55 this time, after fueling, & a short jeep ride with Mrs. S., Krauss & Gressitt. Arrived Nadi, Fiji, at 1:30 Canton time; 1273 miles. We left Honolulu with the idea of by-passing to



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The south of Fiji to avoid a hurricane, but later³
had an all-clear from Nadi. The wind had not
risen above about 60 mph there, but 17 inches of
rain had fallen within 48 hours & the streams
were pouring great quantities of red water into
the sea. Whenever I saw it, this red water was
within the barrier reef which lies close to most
of the coast. Nadi very hot & humid. Flood
waters & perhaps wind had flattened a fair
croage of sugarcane.

Left Nadi 2 PM Fiji time & arrived Sydney
9:30 (7:30 then time); distance 1878 miles. Staying
at Wentworth Hotel. Old place modernized to the
extent of private bathrooms; apparently a Pan Am hotel.

Sydney has had much rain from the cyclonic
disturbance. Muggy & rather hot for Sydney.

Gen. White carried a crew of eleven including
two captains & two first officers, & we had only
12 passengers upon arrival in Sydney. We had
only five through passengers from San Francisco.

Transpacific flight: 7581 miles, 27 hours
40 min. Pan Am runs a very good service. There is
not the spit & polish of Pan American, but so far as
I could see efficiency is on a very high level, &
arrangements for passengers very complete - down
to a buttonhole in the napkins.

Thursday Mar. 8. Left Sydney 9:30 AM by TAA
D.C. 3, stopped down at Newcastle, &
got to Brisbane 1:05. Flaw over solid clouds much
of time. River high with big rain from the cyclonic
disturbance. Townsville, Cairns, & some places in
Gulf of Carpentaria have taken a bad beating.
Wind & flood have done much damage to the
sugarcane crop (harvest begins in two months).

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Was met at the air terminal in town by Denis Williams, Bunting's Brisbane agent. Later, we both went to the Income Tax Office (for tax clearance for New Guinea), Migration Office (for alien registration), & Burns Philp & Co. for information on ships & planes to Tamarai. Mainly concerned with cutting formalities for Ben Peterson if he should have to make a quick get-away upon arrival.

Res. ship, Pioneer Fern, is expected at present to arrive March 31, which is a Saturday. He can take plane that night for Port Moresby or on April 1st. & be in Tamarai by air April 3rd. Failing that, the next scheduled plane for Tamarai is April 17. No boat from Brisbane is expected before that time.

Every person leaving Australia for New Guinea (or anywhere else) needs an income tax clearance. As we have special visas from New York, we don't need the usual permits to leave Australia & to return to Australia from New Guinea. We can pass through Australia without registering as aliens, but we must register in Tamarai (our expected stay being over 60 days). There has been a conflict of opinion on the registration business, & this has taken up most time.

Friday / March 9: Confirmed my booking with Qantas through to Port Moresby. Had to trace a valued pocket-knife lost yesterday on the plane or in a taxi, got my income ~~tax~~ tax clearance, also a tax clearance for Ben. The officials concerned have made concessions & Ben is now documented for immediate departure for New Guinea when he arrives in Brisbane.

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Visited the Queensland Herbarium in what was left of the morning, & in the afternoon the Queensland Museum. The Herbarium - what I saw of it - still an untidy firm hazy of a great amount of ~~unaccessioned~~ material in brown paper bundles & Merrill cardboard boxes - a lot of it unaccessioned & undetermined. Ewings table had not been cleared off for months, by the look of it. He spoke of improvements since he became Govt. Botanist nearly two years ago, but the only obvious one was a repainting of the interior. Ewings & several junior assistants do the routine identifications in agrostology, weed control, etc., leaving Stanley Blake & Lindsay Smith free to spend most of their time on taxonomic work. Blake is finishing off a revision of Metaleuca & is working on Plectranthus, & a honey flora of SE Queensland. Smith is the rain forest botanist. Ewings has proposed for official approval a handbook of the Queensland flora to be prepared by Blake & Smith in 15 years. One of three new woman graduate assistants is working as librarian & is cataloguing & rearranging the books & periodicals. Ewings feels his own impatience, but he is a live wire.

At the Museum the same old faultless order prevails under George Mack's directorship. His only scientific assistant is Woods, a young geologist & paleontologist (M.Sc.) who has been there three years. Oldham, previously of Papua, has been appointed photographer within the last year or two & a darkroom is in process of being filled out. Since 1953 two or three reptile cases have been installed, & a new byre-bird semi-diorama. The preparators need training in modern techniques.

Brisbane now has a 400,000 population & street traffic has increased greatly in the past two

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George Washington
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There are not many traffic control lights & the average driver has no thought of giving a pedestrian a break. It looks as if Australians will continue to be a lean, agile people. A very few big cars are seen. Mostly they are the small Holden, made in Australia by General Motors & Australian capital. The taxis, too, are very small. There is little room in them for baggage, so the driver puts your bags in the trunk, & charges extra for it.

Yesterday I had a heart-warming experience in Sydney. I had had to bring my own bags downstairs at the hotel. The morning was stiflingly hot & muggy & I was uncomfortable in a suit I had worn all the way from New York. Took a taxi to the TAA air terminal, then air line (free) bus out to the airport. Was part way out on the bus when I realized a new Leica M3 camera I have from the National Geographic was missing. I had been carrying it looped over my shoulder & thought I must have left it on a leather couch at the air terminal. A call from the TAA office in the airport brought the information that the camera had not been picked up there. Then I saw my taxi driver of earlier in the morning. Three fares after me, he found the camera on his back seat, tried to find me at the terminal, then drove out to the airport. He did not want to take the £20 I gave him.

Sat. - Sunday. Spent on a visit to brother Eric at Ipswich & overnight at Aunt SEIT's at Toowoomba. Back in Brisbane ca. 9-10 PM Sunday. Much rain & mist in Toowoomba. Country saturated with abnormally high rainfall all this year. Springs breaking out through the pavement of streets in Toowoomba. Brother Alan drove down from Galby to see me.

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Monday Mar. 12: Newspapers here have much to say about the weakness of Sir Anthony Eden, & Mr. Butler's gallivanting while the Arab-Israeli situation darkens. But most of the criticism is done with a light touch which might be deceptive to a stranger. The flavor of the radio, too, is different from that of the U.S. & some things seem a bit incongruous. Hearing, from a local station before breakfast today: "Save shillings on tinned fish at Woolworth's." "Miracle bra that lifts you to lovelier heights." Yesterday, crowds of benighted & others waited in the rain at the airport to see the arrival of what one paper calls "my-and-~~some~~ ^{come} crooner" Johnnie Ray, from the U.S.A. Today the town is at the feet of the "American Wool Princess," Anne Patricia (from cotton-growing South Carolina), who is here with a return for Wool Week.

Most of day spent on business in connection with my mother's estate.

Called on A.C. Gibbin, manager of Australian Estates, & R.W. Peters of Cotton Branch, Dept. of Agriculture & Stock. Gibbin reflects the happy financial position of the cattle & sheep men. Peters said the proposed dumping of U.S. surplus cotton has knocked the bottom out of the market for Queensland's small crop, which is sold to spinners in southern states. The spinners have stopped buying. The industry here was nothing below the grade of "middlings", while in the U.S. a grade lower is acceptable.

Spent the evening at sister Edna's.

Tuesday March 13: Made letters, did some shopping, & worked out ration lists for New Guinea.

Stopped awhile to see a demonstration of sheep shearing in front of the Town Hall. In place of the interior of a small woolshed was rigged under an awning, before the august entrance. Two men shorn with machines, and an elderly man with

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old-fashioned blades. The shears caught this sheep
in regular pens. It somehow carried away the
wool & kept the floor swept. The fleeces were trimmed
& graded by a wool classer in white smock. Pruners
baled the wool on the spot. Only a few people were
interested in watching this good Wool Week show.

Wed. March 14: Australia seems to have practically
in the carton age. After trying in the town to get some
good paper for wrapping some artifacts in preparing to
Tamarai, I had to scrounge some from the Govt.
& Botanist. I'm sending some old "curios" to Tamarai
for shipment to U.S. at end of expedition.

Day spent in calls to Queensland Herbarium.
morning tea with the W.D. Francis's & Mrs. C. T.
White at Mangrove Point, lunch with sister Edna,
packing artifacts, & evening with Eric & Reta
Humphreys at Camp Hill.

Letters in from Gusty Miller, Norman Igoe
of Normanby Id., & Reg Wheat of Woodlark Id.
Our cargo should reach Tamarai on transshipment
from Port Moresby by the SOOCHOW about the end of
this week (It left New York Jan. 15). Igoe offers
every assistance & so does Wheat. The former
wrote of caves to NE of Tawa Bay with bats "like
the grains of sand and big stinks", according to
native report, which is encouraging. Wheat wants
us to live with him at his place at 600 ft. in
the hills near Kulanadaw, near which are caves
full of bats & human remains. Wheat offers boat
transport & all the native labor we need, including
a good boss boy. Igoe feels we might have
trouble in getting carriers on Normanby.

Thursday March 15: Day spent on final errands, a
second visit to the Museum, & lunch
with Denis Williams at the United Service Club.
Rus' ship, the Dionaea Gen., is still scheduled to
arrive in Port Moresby April 1st., but the agency says

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privately is more likely to be the 3rd. Bookings
for him have been made by Qantas for departure
for Port Moresby 11:45 PM April 1, & by steamer Soochow
scheduled to leave March 29 but expected to be some
days late. Further than this, matters are in the
able hands of Denis Williams in Brisbane. I will
cable him from Port Moresby when I find out the
local situation as regards possibilities as to
Taramai. There are five planes a week from
Brisbane to Port Moresby, but only one regular plane
per fortnight on to Taramai. The Soochow
usually takes about nine days to reach Taramai
via Port Moresby.

The weather here continues showery & not so
uncomfortably hot as when I arrived a week ago.

Port Moresby

Friday 3/16/56: Left Brisbane a midnight last night on
Qantas "Bird of Paradise" DC 4, stopped
down in Townsville, & arrived in Cairns 5:30 AM -
well before daylight. There to meet me were the Gil
Bates, George Proctor, Tom Hobbs, Ernie Stephens, & Alf Reed.
Mighty good to see them all. The recent cyclone blew up
to 93 mph in Cairns; very little rain; about 30% of the
sugarcane crop flattened, & losses will be heavy. The roof
blew off the Bates house, but there being hardly any rain,
damage to possessions was small.

Left Cairns 6:30. Grinnell boarded plane there.
Arrived Port Moresby 9:10 AM. Smooth flight. Was met
at the airport by Justice, 2/16 Forestry Department
(The Adam is on leave), & then to meet Grinnell & me
were Spent- Ivani (entomologist), & Ken Slater
(animal ecologist, with main interests in herpetology) of the Dept.
of Agriculture.

Day spent on visits to govt. offices, under the wing of
Justice, who came here from Queensland only last January.
First called on Wilson, Assistant Administrator, then
Don Gross in District Service (formerly A.D.O. Taramai),
lands office for maps (Mr. Jones), Dorothy Thew

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(Plant Pathologist, who visited us in Florida last year).
 & Grahamstew, Chief Collector of Customs,
 cordial reception everywhere. Government will be
 helpful. Wilson, a new (ca. 1 year) appointee, a very
 quiet man. ~~Grahamstew~~ Grahamstew (known to me since 1925)
 showed me a special ordinance which, after the fears we had
 with Customs duties in 1953, was passed to permit the
 free entry of equipment & materials for scientific
 purposes. We submit a written request under this
 ordinance.

Spent some time at the Forestry Dept., looking
 at air photos of the mountains of Ferguson Island. It is
 extremely rough country for the most part, broken by great
 joint- and precipices. The highest peak (6800-ft. Mt. Kilkerran)
 looks especially difficult, & there is not much mossy forest on
 a summit of very limited scope. Mt. May 606 (5615' (ca
 6000 ft. on some maps) offers more scope & much mossy
 forest, & looks a better proposition, with approach from
 Lyngman Bay. There appears to be a small patch of
 grass on the very summit of Kilkerran.

Sgt. Ivan, a refugee Hungarian, now an
 Australian citizen. Primarily a lepidopterist, but evidently well
 grounded in zoology in general; a man of very pleasing,
 open, but strong personality, & apparently very good mind.
 Held several fellowships in various parts of Europe & ~~was~~
~~was~~ & was out of his home country when it became involved
 in World War II. His wife & daughter still in Hungary.

Mar. 17: At Bank of N.S. Wales, Manager. Gavin told
 me about the strike of petroleum gas we heard about in
 the U.S. a couple of months ago. This was at KEURU,
 Aramia River. Well belonged to Australasian Petroleum
 Co. Was being drilled by an American contractor. Much
 trouble at start of bore. When trying to make up time,
 & not taking proper precautions, the gas was struck
 unexpectedly at 990 ft. (The first bore in this area). Great flow.
 Bore was capped, & the gas blew out in several places
 close to the bore. An expert flown out from the U.S.
 had a look at the situation, then went home. An oblique
 hole is now being drilled to tap the gas & reduce
 pressure in original hole. Govt. has sent out two

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patrol officers to determine water land ownership in the Keam area. Oil company doing a hydrographic survey of coast & rivers. The whole thing looks very important.

Sat. Mar. 17. Talked at Steamship Trading Co., where I met Mr. Mitchell & inquired about the possible sailings of the Toochow, which left for Tamasai this afternoon with our cargo (at Pioneer Reef from New York Jan. 15). Talked with Arthur Jones at Bank of N. S. Wales (see above).

John Womersley, Forest Botanist, arrived by air from Tae in morning. After lunch, with two young men from his department, we drove first to the Brown River, then to Poona Falls. Some nice forest, which John calls intermediate between rain & monsoon forest, in Brown River valley on flat lands said to be of deep alluvial soil. Some cutting being done. A good small nursery of Oak (Lectona grandis) on river bank, where there is a forest survey camp.

Road stops (formed & gravelled road) at the Brown, where a bridge is in early stages of construction. A motor track goes on to the Vanapa River. Long term plan is to carry the road to Bulldog, Takakamu River, to connect with the now abandoned wartime road which came over the central range from Tae (a Nau).

But Womersley's present water supply is pumped from the Kaloiki River; said to be sadly inadequate when river is low in dry season; pumps also give trouble. A hydro power installation about to be built some miles down the Kaloiki gorge from Poona. ^{open} Concrete flume from foot of the falls already finished, & the transmission lines (3 wires) from the power plant still to Pt. Womersley. Storm brooks are the contact on the generating plant; transmission line built by Commonwealth Dept. of Public Works.

A British aluminium company is still on a hydro survey of the western river which was in progress in 1953. Said to now be somewhere west of the Purari.

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Sunday March 18: Day spent on an excursion to Mt. Marivata about 9:30 & returned about 6:45. Traveled in Administration vehicles: a Humbler touring car, a jeep, a land rover, & a big jeep-like thing made by Austin. Personnel, besides myself, Tim Gerritt, Eric Show (entomologist from the Solomon, specially interested in Hemiptera & water insects), Dorothy Show, Joe Szani-Young, Gabriel Keleny (Plant Introduction Officer, & another Hungarian), Ken Hater, Bill Reed (Fisheries officer), John Wornersley, & our host, Vince Saunders. Saunders has a lease of 640 acres plantation land where Parsons Philp & Co. had a coffee plantation said to have been abandoned in 1908. He also has a licence to cut timber on 3500 acres, mostly open Eucalyptus forest. Rain forest in gullies, including an extensive body in the deep, narrow valley of NARIGOGO track.

Left the Humbler on the Tojini road above Poona Falls. Continued in other vehicles to a field & camp on Warigogo Dr., thence up the slopes to ca. 2200 ft. near the top of the range, where Saunders has a second camp. Walked from there to ca. 2400 ft. at the nearly treeless area that was the coffee plantation; then forced back, crunched by heavy rain.

At the lower camp on the Warigogo, collected Torrenticula on submerged aphanopora rocks & living tree roots. Alt. ca. 1500 ft., field Saunders. Photographed Gendrobium ferresii at ca. 2000 ft.

The Warigogo stream flows into the Katoke River not far above Poona Falls. Eucalyptus tereticornis the principal tree of the open forest; E. confertiflora abundant locally; "Tojini red gum", probably a form of E. alba, also present. Casuarina papuana? common locally on savannas & in the gully rain forest. Banksia & Trivellia papuana (?) also in savanna forest. Wornersley saw Castanopsis in gully forest at 2200 ft.

Mon. Mar. 19: A very hot day, spent at Konedobu & doing business in town. Drive of District Services, or whatever the department is called after a recent re-shuffle of the Administration, had no information on any of the islands we wish to visit. Henderson, Acting Director, Dept. of Agriculture, was as candid as it seems possible for him to be. His regards

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permits, we should collect what we want. On continuation of the expedition, we radio Agriculture, P. Morsby, particulars of collection. Agriculture will arrange with Customs for an export permit.

Julius, Govt. Anthropologist, did not say outright that he wanted duplicates of anthropological materials. At end of trip we send to nearest A.D.O. list of items collected, with localities; A.D.O. will advise anthropology, & permit to export will be issued from there.

Picked up 1 mile maps of Misima & Woodlark from Lands Dept. (free of charge). Made a personal call on Claude Champica, who is now Assistant Director, Dept. of Civil Affairs (part of what used to be District Services Dept.). Evan Champica, Native Lands Commissioner, was away in Robaul with a U.N. inspection party.

Registered as an alien (with Customs Office). Submitted to Chief Collector of Customs Grahamshaw a written request for the duty-free importation of our equipment & supplies.

Bernie Ryan of B.P.'s told me Friday that Bob Casswell, of "Carr ~~the~~ Air" would be willing to delay his flight to Samarai on Friday April 6 to meet Rex Peterson on the Qantas plane arriving from Brisbane. Casswell was supposed to be in town this afternoon, & I arranged with Bob Mac Pherson for a talk with him, but the meeting did not materialize. Radioteletyped & wrote Denis Williams that Carr Air could be expected to ~~meet~~ ^{meet} the April 6 plane if necessary.

Savior of Bank of New South Wales took me to the Papuan Club after office hours, & then I met old-timers James, Crane, De Groen, Trist, etc.

Tuesday March 20: Got up bed at 3:45 AM, breakfast at Qantas mess, take off on an old PRY2 at 6 o'clock. Arrived Samarai 8:10. High peaks of Main Range obscured by dark clouds, & we flew through showers much of the way. Much vegetation on cliffy coast of east end of mainland browned by spray from recent high seas.

In Samarai, our cargo is in Customs bond. Printings have Lionel Coennett lined up as transport man. Our boys from Ferguson & Goodenough

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islands are due to arrive about the end of the week.

Discussed our plans with Clifton-Barnett, acting District Commissioner, who looks & acts more like a clerk than a field officer. He knows nothing about the islands, & could not turn up any useful patrol reports on Ferguson Island, our chief subject of discussion. He will contact S. T. M. Rutledge, A.D.O. Esala, & suggests that I write to him.

Our first remittance of \$5,000 (£2215-0-1) has arrived at Bank of New South Wales. Bank manager is M. L. Y. Hebdon.

Bob Bunting has sold his house. Gusty Miller's guest room is occupied. I am staying at the "Guest House" run by Mrs. Hansen. Very crude. No sinks or wash basins in rooms. No water in one of the two common bathrooms. No hot water. But the food seems good.

Had dinner with Gusty & Hilma Hall. Cliff Brennan, visiting insurance man, also there, & Mr. Gibben. Gibben has recently opened a trade store at MAPAMOIWA.

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Taramai

Wed. March 21. Rain from about 3:15 PM to noon. Thick weather after that. Estelina was prevented from calling on a flight from Rabaul (with U.M. delegates) to take to Port Moresby a woman (Mrs. Bruce Hamilton) dangerously ill with a gangrenous leg.

Engaged as transport man at £70 a month Lionel Bennett, Papuan born & reputed to be a good bushman & linguist. We knew him as the master of a small ship in 1953. He starts April 1st. Most of day spent on paper work - going over maps & notes with Lionel, letter writing, etc.

Just at guest house Bruce Hamilton, born on Woodlark Island, author of "Folk Tales of the Tuggie Muggies," & now manager of Gili Gili plantation. Rather drunk, & not well thought of in town, because of neglect of family. He gave me an autographed copy of his book.

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Thursday Mar. 22: Another wet morning. More letter writing. Formal application made for release of our cargo from bond. Kelly, Customs man is in master's quarantine in jail, school master is acting collector. It rained about the cargo until 10 P.M. mostly yesterday.

Talked by radiophone with Bernie Ryan of B.P. in Thursday & had confirmation of an arrangement for Carr to meet Mrs. Peterson's plane on April 6 if Mrs. arrives in Thursday then.

To dinner with the W. Cottrell - ~~Doorman~~ Doorman (Dept. of Agriculture). Pleasant evening at their house on south shore of island. Doorman was formerly director of the department in P.M.G. Has had experience in Malaya & Tonga. Has two assistants in Tamarai. Doing much planting of pilot plots of coffee - mainly arabica, some robusta. Runs extension courses for select natives from as far distant as the tip of the island concentrating on the growing of dry rice as a native food crop. Mrs. Doorman is a sister of Mick Healy.

Doorman speaks of Woodlark Island as having a rich & in some ways peculiar flora, with similarities to country about SALAMO, on Ferguson Id.

Friday Mar. 23: Still somewhat rainy in AM.; breeze continues SW; heavy dark cloud over mainland mountains.

Cargo released & moved into Bentling's bulk store, in same position as 1953. I have 14 of the 17 crates unpacked. Bentling's have loaned me two good boys.

Talked at Cottrell-Doorman's office & he loaned me copies of his reports on Woodlark Id., etc. D.C. Clifton - Barnett loaned me Tavoran Study 34 on the Louisiade Archipelago.

Tamarai weather is sultry, but temperatures (82°F. max. today) are not too oppressive except in Bentling's bulk store, where I sweated copiously today. A new arrival at guest house today was a young,

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April 30. Left Waikamoa at 7:15 with 113 men
I reckoned about 38 loads, including men
for carriers, but Lionel is not a precise organizer
and, fortunately, more carriers offered than were needed.
Some carried light loads. Right was from SAVATAITAI
on the east side of the island.

HERUDOWA River reached at 7:35 (about 1 mile).
Crossing it four times, we started up a long steep slope
& reached Taddy Ballantynes former gold workings on
BUATAI track at 9:20. Alt. 250 m. The ferns & birds
of Paradise (P. decora) a little below this. Here well marked
tall rain forest. Track very bouldery & with moderate
fall. Stayed over an hour & had drink of tea while
the carriers cooked rice.

10:45. Moved on (alt. 280 m.) Up creek a few
hundred yards then fairly steep climb in places (but
slopes generally gradual).

12:20, 550 m. Forest of smaller trees in which
Laurydium appear; many surface roots; scrambling
slender bamboo & a climbing Wapenthes. Rain forest.

620 m. First oak noticed in the stunted forest (it was
cut by way a week ago). Slender tree. Not a change
to regular mid. mountain forest.

650 m. Diplazis conjugata growing beside a 30 ft.
Laurydium which Ted & Lionel climbed to view Lawa
Bay on their reconnaissance.

660 m. Distinct change to stunted forest of Laurydium
& small leaved angiosperms. Much Sphagnum on
ground, scrambling Lycoedium coronum, a bladder-
wort growing in moss on one tree.

720 m. Rock out knob. Coast & a small steep visible.
Many palms & a change to good tall forest mark camp site
about 1/2 mile ahead. OBIA prominent to right.

710 m. Laurydium forest reached a steep small rocky
stream.

2:15 (±). Camp reached. Lionel, most of our own boys
& a few fast carriers ahead of me. Alt. 730 m. Camp on

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PABINAMA Mountain in what appears to be tall "mossy forest". Forest composition still to be seen. E.g. epiphytic red Rhododendron flowering on edge of camp clearing.
 Alt. at 6:30 7600. Some mist from mid afternoon into evening.

Two fly & two tent rigged; a palm shelter for cook house. Good level ground. A little more clearing will open up a good view of the coast & the S. edge of Goodenough Bay on the mainland. Level & Ted did an excellent job in opening up a route from Ballantynes Camp & picking the camp site.

On their return trip Level made camp altitude 7300. Ted 7770 ft. The summit to be only a few hundred (500-700) feet below the summit of the sharp-topped Tambora mountain OBIA (3400' on the 1-mile map), so our altitude is probably about what Gray made it - say 7700 ft.

Tuesday May 1. Continued light rain before dawn. Nothing later, into evening (7:30).

All hands spent most of day in preparing this PABINAMA Camp. Digging latrines, making water tables of sticks & split palm, etc.

Caravan given breakfast of rice, paid 7/- each, & sent back to their villages. Tent with one of the three visiting councillors a letter to Norman Spelt, posting him a copy.

Did some botanizing in afternoon. A common small tree fern (Cyathea), 4 trees sp., etc. collected. A Xanthorrhoea (a ~~Baccharis~~ Baccharis) fruiting plentifully in the forest, indicates that this is what I have called "mossy forest". Forest canopy at camp about 16 ft. high. Nearly all small-leaved trees.

About 115 traps out this evening. Several

Petaurus calling around camp. ~~Some~~ #shels fired at a small but frequenting a small-leaved tree with acid white fruit's common in the forest (Pteronochia?)

End of my first
 Kiffed page

Collected

GEORGE W. BROWN

MADE IN U.S.A.

Wed May 2. A very slight shower in afternoon the
only rain. Mist towards evening, else
bright daylight (5 AM) but stars & moon shining through.

Went up the slopes of PARINAMA to the end of the
cut track at 805 m. (all in camp when I left 7:30 m.).
Then cut to crest at 825 m. (later 840 m.). Stunted
scrub there on the south of the crest. It consists of
Worthenia & other broad-leaved plants with Worthenia
Sy. Unis conjugata, a great erect Gleichenia cover fern
found in 1933 on Mt. Cayman & Goodenough Id., &
predominating above it on the S. slopes an open stand of
Sacrydium stunted to 3-5 m. Its filamentous red
fungus conspicuous on branches of the conifer.

Obtained distant views from the crest,
but got a glimpse of the BUNAMA promontory.
Mt. OBIA bearing 228° magnetic; a southerly peak
appearing about equal in height was 140°. Sounds
of an axe, probably in camp, 305°. North end of
NUNAKATA Island 185°.

The beech was a good find. Collected were
several trees of the mossy forest - unfamiliar to
me. An abundance of slender scandent bamboo in
forest generally of open canopy, probably as a result
of damage by hurricane winds years ago.

Russ followed the track in the afternoon & now
trips on set up to the crest. Mammal signs (?)
include uprooted yellow clay under moss - (cut tree
trunk) & what look like runways. Much shooting
into the white-furled tree last night: 2 Myctophaga.

Thursday May 3. Mist on & off a good part of day after
5 AM: some small showers noon to
2 PM.

Botanized down the track on the stunted, open, heavily
mossed Sacrydium forest. The conifer only 30 ft high
at most; Myrsine & Hydrocotyle (very stout
specimens) common in branches. A Calophyllum, in

[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side. The text is mirrored and difficult to decipher.]

flower, was plentiful as a tree 5-6 m. tall. It
with the pages than also; not seen in quantity, & seemingly
different from the one found on top yesterday. Another
Wapentha than too, looking like W. muricata & having
the mossy flower as a characteristic of that wide-
ranging species. It grows on a ridge (#25 (56), with green
stems usually several meters long, a nuisance in the
forest; a slender, tall, sharp-edged Tecoma also.

climbed a Gaerydium at ca. 750 m. & made
photos of Mt. OBIA. Tiouat took some bearings from
camp. Duckers Island 302°, Annie Inlet Island 262°
magnetic. Saw the weekly PBY 2 in flight toward
Samarai.

Found bristly gray, short-tailed Pteropus, apparently
different from the lowland species, caught in traps.

Tiouat's boy, went down the slopes to shoot for the
1st, returned with one blue pigeon & an old male
Paradisaea decora. The parrot (bird prepared as a skin
by Ren.

Friday May 4: Occasional clouds down in mountain
from about 8 AM; showers, some heavy,
about 11 to 4 o'clock. Clear starry night (8/1977).

Had some trees below camp cleared today to give
view of coast. Great expanse including islands off Luce
Bay coast, West end of Ferguson, & all the peaks of
Goodenough. Tiouat at dusk tried to signal two
small vessels in sight; no response.

Botany in a small creek less than 1/2 mile on
the steep slopes to the SW toward OBIA. Nice lot of ferns
including Vandenbergia, Leptopteris, & a second
Cyathea for the locality. Two very interesting small
rubaceous trees, one with curiously enlarged calyx in
bud of many 2d fruit & long, fragrant white flowers.

2.
End of my 2d fruit
dipped page.

Found gray Pteropus in traps, a Myctophila shot
last night, & a Sobania from a mangrove tree today by
Tiouat.

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Gathering more plants than I can do with me even
Picked a bundle today

Tue May 5 No rain last night then until near daylight
The coldest night so far. Temperature at 6 AM
(5 F. Intermittent mist & rain all day (some heavy
showers) from 8-9 to 3-4 o'clock.

Too much rain & visibility too poor for satisfactory
botanizing. Worked in new territory to ca. east opened up by
Lionel yesterday. Close under crest of mountain. Wide nearly
level shelf of several acres (as far as seen) covered with
good tall mossy forest (fairly open underneath & easy to
get about in. Composition about as at camp level, but
a beach is a canopy tree. Collected a Lycopodium with
small leaves (25738) & white subacid fruits which is an
important dominant all through the forest (fruits eaten
by Petaurus & Mytilinus at camp). Also gathered a
tall palm, common in the taller mossy forest of this &
neighboring peaks, which has the appearance of a slender
coconut.

On sat & a rain in traps. No shooting. Lionel &
Lita-like camped tonight to trap & shoot on the flat
ground mentioned above. Found them today the spading
of a palm from which a goat appeared to have been
removed by a Dactylopsila

Trinken to WAIKAWAIA for miles & on to Fines Bay
to try to get a native to come up here with hunting dogs.
One of the councillors was supposed to have brought his
dogs before this.

Sunday May 6: May 27th min. 18.5°C. The usual clear
night followed by clear until about
10:30 AM. Clouds & heavy showers after that to near
dark. Weather day so far. They now (7:30) vary.
Opened a new trail across the water place
stream is a bit N of sunrise. Got into thicket
Sacrydium here, so cut up to "Lionel's Place."
Poor morning, before rain sent me back to camp.

The first thing I noticed when I stepped
 out of the plane was the fresh air. It felt like
 a warm blanket after a long winter. The
 sun was shining brightly, and the birds were
 chirping happily. I took a deep breath and
 smiled. This was my first time in a new
 country, and I was excited to see what
 it had to offer. The people were friendly
 and welcoming. They showed me around
 the city and helped me get settled in.
 I was in good luck. Everything was
 going just as I needed. The food was
 delicious, and the people were so kind.
 I was really enjoying my stay here.
 It was a great experience. I was
 really happy to be here. The people
 were so nice to me. I was really
 enjoying my stay here. It was a great
 experience. I was really happy to be
 here. The people were so nice to me.

Esleek

Great Cotton Skin

MADE IN USA

But collected male flowers of the Urtica sp. first got in the Garrydium forest at 750 m. is seen a small canopy tree in tall many forest.

Nothing in traps. Nothing shot. Nothing from Kiam's night camp.

Tinker returned from Wakaiama with a big lot of mail, including a letter written by Jeff Tate. One from the Rev. Brentwell of MEHAPI tells that "in 1934" he followed our trail up Uti. Mianau, camped two nights at our #2 Camp, & from there went to the summit. Good to hear camp in Uti is doing more collection & collecting.

Monday May 7: Clear night. Uti driving a sharp shower from about 9 to noon. Clear & mostly the Uti cloud, sea very hazy; wind from N & more brisk than Uti. May 26. min 15°C.

Botanized up to the coast in Uti, with much trouble (mist & rain) made a few plants. This coast above us seems to be the 3400 ft. summit of the Uti, although I have never in three visits had clear enough weather to see all around.

Two Urtica sp. from fruiting trees at camp during night by Rev. Eight Pagonomy cut from Uti trees, five from a bit above camp level by the mammal boys, three from about 500 ft. below camp by Kiam's boy. Measurements indicate the species the same as on the Wakaiama.

Yesterday's mail brought word from Brentwell that they expect to send a boat to move us to Ferguson Id. on the 19th or 20th. This a day or two earlier than I asked ~~if~~ I have therefore decided to move Uti down to the coast on Tuesday if carriers are Uti available. Tuesday is market day on the coast, when Uti natives take their wares to the Uti store, etc.

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Extract

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Tuesday May 8 May 26, min. 19 C. Bounteous westerly wind whipped the mist all night, accompanied by mist & some drizzle. Wind somewhat abated by the afternoon. No rain.

Went down the trail to about 700 m. (600 m. by my aneroid at about 30) & then collected the oak tree on the way up. Flowers only, & only a subsidiary tree in rather shaded mixed rain forest. Nothing else of special botanical interest although the first Fragaria for the trip collected. Big species with soft, almost unarmored leaves & yellow bracts.

A good day for mammals. A Nyctinomys shot last night by Tenet on his "plateau". Two gray rats in traps set by Res' boys. Four Pogonomys cul from a tree by Tenet & his boy, plus "T. p. m.". The prize was a brown Phascogale trapped by the cook; heavy set animal; a male; pencil drawings by Res.

Wed. May 9 May 27, min. 19 C. The westerly wind not so strong, but continued through last night. Weather still from N today, mist much of time; light sprinkles from one sector through afternoon.

Went to the summit of PARIMATHA for the fourth time to make pictures. Eventually got several half misty ones of OBIA with East Cape under its south shoulder. Few plants collected. In afternoon went boys into the Geomium forest for an orchid with spotted leaves which grows here & there in the Sphagnum ground moss. It turns out to be Papilopedium (?), of which a species collected by me in the Helen Valley in 1935 was such a prize that it was named for Queen Wilhelmine. Like Cypripedium. Small purple-brown flowers much damaged by insects (?).

Another good day for mammals. The prize this time a black Hydromys from the small stream SSW of camp. A Rattus also in traps. Five Pogonomys cul from a tree.

Tenet went down to Makurusa to arrange for carriers for Saturday.

Thursday May 10 May 27, min. 19.5 C. Cloud drift still from N but wind down to a gentle breeze. No mist in camp. No rain. Petaurus resumed calling in the

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Clearcopy
ONLINE
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tree life last night; they were silent, & few bats came to feed during the windy night.

Retranized in the direction of 141: 00311 about $\frac{1}{2}$ mile & down the edge of a canyon-like ravine to about 750 m. alt. Rain forest - many forest transition zone. 3.1. Three large Lyallia spp. from the ravine & a red-leaved Sickonia from about 800 m. This makes 6 spp. of tree-ferns collected this far.

Got back today for mammals. One in traps. Skomys a brown animal which I think is the second record of the genus from the S. T. mountains. You got one at Goodson, K. in 1953. Tom Pagonomys out from a tree by mammal boys sent in record of capture.

Friday May 11: May 27, min 18.5 C. Rather windy again last night & today. Intermittent small mist clouds. Wind from N to NE. Very hazy today. Strange weather & fortunately, rather dry in the mountains. The SE trade should be blowing steadily in May. No rain.

In camp, drying specimens & preparing for tomorrow. Laurel will not come up the mountain with the carriers.

One Rattus in traps & one Myctomys shot in camp by Res last night. Some special traps being left out tonight. #

4
Eugene
with
page

The almost final count of plant collection for the camp gives 156 numbers (including 30 cellular cryptogams) & 327 sheets of specimens. It could have been better. The flora is not rich. Insect collecting has been poor; very little any night from the light trap; hardly any butterflies; best results in damselflies; only one dragonfly caught. There is not enough open habitat for butterflies & Odonata. Frogs, with 7-8 spp., have turned up fairly well. Few lizards (perhaps 2 Skink & 1 giant spp.), no snakes. A small net from the little ~~stream~~ stream to the SSW.

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THE UNIVERSITY OF CHICAGO
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Sunday June 3: Overcast morning; heavy rain most of afternoon, ceasing towards dark.

An unpromising outlook for our planned transport move in the morning. This is the fourth day of bad weather in a row. Everything but our swags and the cook's box and pots and pans is packed tonight. Including 150 lbs of rice for the road there will be 47 carrier loads, 37 of which will be going on from Agamoia.

Lionel leaves early in the morning for Mapamoia and I will take over the transport man's duties. Today Rus finds himself practically out of flashlight batteries (only 10 new ones on hand for four weeks of field work remaining to be done on the island). Here at Iamelele we are in a radio reception blank spot for the Samarai transmitting station. We have no information on boats or planes. Therefore, if the mammal department is to function, Lionel must do the 6-hour walk to Mapamoia, get on the radiophone to Samarai, then walk down the south coast 6-7 hours to Ailuluai and from there climb the mountains to our proposed camp. If next week is fortnightly paane week for Esa'ala, the batteries can be flown there Tuesday and we can send a messenger (3-4 days and a ferry trip across Dawson Strait) for them. There might be a boat coming in this direction. Tomorrow will tell.

Mails will go out to Mapamoia in the morning, my corrected galley included.

Monday June 4: Rus & I left Iamelele at 8:15 AM with 36 carriers, arrived AGAMOIA 11:10 PM. No very hard walk. Fortunately the weather held fine. Had to leave 11 loads at Iamelele. ^{Shortage} of carriers. Carriers were from SAIBUTE (9) and IAMELELE #1 & #2. Had VC's from Saibute's Iamelele #2. The Saibute councillor who went with Lionel up to MARCH track & also on his exploration of last week.

Reached FAGULU 10:10; very hot over the thermal area. From followed alluvial flat through tall forest; were carried across 3-4 small streams still running straight from yesterday's rain; track muddy, under water in places. In 20-30 minutes from Fagulu entered fine tall forest on rising ground; many great clean dip. crickets; ground stony as at WAIKAIUNA.

At 11:25 rested at the high stream soon after passing an area of Imperata & Mikalana savanna. First hard going followed this. At 12:45 came to the crest of a narrow ridge at a place where old coconut palms marked the site of a former village, fine view of Lake LAVU & the Amphiblets of the N. coast (plate); easy climb for drinking water - very welcome; altitude 200 m. The lake shown on the 1/2 mile map is actually an island in the lake. Small islands of grassy vegetation afloat in the lake; edges marshy.

Reached NIUBUA 2:05, lunch with ~~30~~ 30 (many carriers did not arrive until after 3 o'clock); perhaps half dozen houses, good rest-house (barracks); 270 m. to the high point on road.

(nearly)

Glenn County Union

Glenn County Union, Glenn, California, 1911

The following is a list of the members of the Glenn County Union for the year 1911. The names are listed in alphabetical order. The names are: [Faint, illegible text]

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Glenn County Union

Glenn County Union

Left MICHOLIT 3:05. Hamlet of LEGUAGAMA, 3-4 abandoned houses, 680m., 3:40. Most of this ~~distance~~ distance through very steep narrow ridges; much oak on lat primary forest; much orchid.

Dropped down through the primary forest to LILAI Brook, 160m., at 3:55. Enigula hamlet on low east bank. Growing here was a young *Stranoeia*, ca. 30 ft. high, said to have been washed down as a seedling by a flood.

AGAMUHA, a village of about a dozen small houses & a dilapidated mission church (Methodist). Good rest house, but small for our needs as a collecting camp. Very friendly people. 18 VC & several councillors, also 3-4 older men than one often sees. The women were busy cooking food when we arrived & towards evening brought 22 earthenware pots of taro & sweet potatoes; paid the government price asked, 1 stick per pot. Enough food for our 36 carriers, & "company" boys, & hangers on for supper & breakfast. Alt. 210 m. First timber to shoot a wallaby for the carriers; saw three, got none.

This AM at 6:45. Lianet, with GALUWINA carrying a light load, off for Khamawwa

Tuesday June 5: Only 6 of our 37 carriers of yesterday were willing to go on to the mountain camp despite an arrangement with Lianet that they would do the whole trip. I discovered this last night, fell in the carrier & talked through Kim, the good. Therefore asked & was promised 25 carriers by the Ugamoria V.C. People want the 4¢ per day.

Local carriers late in morning up & it was 7:30 before I got away with 25 loads (6 of them women) & the 6 remaining Tailbute. These local councillors carried full loads; Tailbute councillor with us.

Road followed the Ugamoria spur ridge up a little way then drifted through primary rain forest to cross the LILAI at 720m. (Ugamoria 170 m. this AM). BUDAGAFATUGONA hamlet on far bank. WA-14 hamlet of 3 houses 8:30. Mostly steep climbing from then on, with sharp. Typed OIBWAGIT (field Tailbute councillor) across the Lilai on 6th.

At 10:30 reached alt. of 700 m. where the track left the crest of the spur we had been following. Big *Stranoeia* trees in oak forest here (oaks for ca. last 100m.). Very steep steps descended on a very narrow rickety track to a rocky small stream at 650 m. Reached stream 11:00, ahead of carriers. Lunch stop for 2 hours. First water. Camp supply. Light showers as we rested.

Camp at 780m. reached at 1:20 after a very steep ~~up~~ 25 minute climb from stream. Good ground. Oaks predominant

8 conspicuous by brown under surface of their leaves, in wet-looking forest 50-100 ft. high. Camp on a nice bench about 50 ft. below crest of the main Abgamoia-Morimo divide.

Paid off the local carriers at their request - & saved them by 50 lbs. rice. - & they left for their village about mid-afternoon (Besides the three councilmen, the MIBUBA policeman carried loads).

The two flies I may not rigged before dusk, & the boys finished making their sleeping platforms well above the ground.

One drum of Kerom is somewhere between here & Samale. Borrowed a very small hurricane lamp (German) from one of the Saibute carriers to test by, it was in fact by 7 o'clock. The last two days have been strenuous.

Wed. June 6: Heavy rain, with thunder, through much of the night after 11 o'clock. Rain on & off, with rather strong wind, all day, hampering the work of rigging camp.

Paid the SAIBUTE carriers & gave the councilmen a present of £1 after breakfast, & they disappeared over the crest of the divide on a visit to the Morimo coast.

Took off supervision of camp construction to examine the divide above us. Camp altitude when I left was 775 m. by aneroid, about right camp on the crest, a bit to the west, 800 m. It saddle in the divide to the south, under a peak much higher & bigger than ~~our~~ our slight eminence, 750 m. In this gap the natives have cut a fly-way which they net for pigeons. A rattan cane stretched across the fly-way has small bunches of dried grass attached to it. Watching natives shake the rattan, the attention of the pigeons is caught as they fly over, & they go into the net.

Animal carriers arrived at 9:50 & at 11 o'clock Res arrived from Abgamoia, had 10 carriers & three spare councilmen, journey of 6 hours. Carried by 13 Samale men the 11 loads I left at Samale on Monday reached Abgamoia about 2 PM yesterday for 100 for Res to come on.

Nothing in 30 traps put out 100 yesterday.

18 whinnies of many cicadas ("cicada crickets"?) at 5 min. to 6 PM.

Thursday June 7: Raining & squally much of last night. Keen wind from NE in forenoon; high overcast & little sun all day; some mist in traps 100 afternoon; no rain to night-fall.

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Glenn County Union Skin

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Lionel arrived from Naparua about 10 AM, having slept at UKÉCKEO (UKAIORAI of 1 mile west) on the pluvial coast. Had the village constable & a councillor with him, also WAIHA, who was Pando's head boy on the Fly River in 1936-37. Waiha heard I was here & came up to see me. Lionel walked up the in about 3 hours. Good track, he says, & moderate slopes.

The threatening weather in early morning kept me close to camp. Collected on the immediate crest over 30 numbers. Mostly generic species, but a nice *Tapezia* of the substep, a *Gyathia*, & at least six orchids including a brilliant orange & yellow *Diuris* of which I made close-up color photos. Forest of crest, as of the upper slopes, dominated by an oak made conspicuous by brown under-leaf surfaces. Tall *Stranoeia* prominent on crests of main ridges & lateral spurs.

Nothing in 125 traps out last night. No jacking. All daylight this morning, & yesterday too, heard the best of drums down the slopes to ea. north. No cicada sounds this AM.

Camp construction completed. This afternoon had 2 spar boys begin cutting forest to open up a view & let the afternoon sun into camp. Already we can see Lake LABO & the coast of Huayta Bay.

Friday June 8: Fine day until 3 PM when mist settled down at camp level & lasted until a little after dark. A few sprinkles with the mist; patches of blue sky sometimes showed through it all.

Cricketing began to sound at 5:55 PM; no sound from them this morning. They do not begin their evening choruses with an extra loud, shrill note, as on the mainland.

Lionel cut a direct track to the top of the first & second peaks in the east; he did not carry the animal. I followed an old, very bad native track which rickles around the N side of the first peak. In rain forest; nothing of great interest. Track very narrow with steep fall, & made dangerous by slipping tree roots. Had one fall.

One young gray rat (*Rattus*) in traps last night. Young *Pogonomys* cut from a tree today. 175 traps out tonight, including a steel rat with meat lure in camp, & two rat traps set on trees in camp.

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420 ~~53~~

Three women & 3-4 small boys & girls stepped on
down a tree in camp on route FAHIANA on the MORIMA
Coast to AGAMOA. Unusual to see women travelling
without escort. A man & his son & a dog, some spear,
came up from the Morima coast this AM to satisfy
his curiosity about us, & went back after a meal of rice.

Tue June 8: In mist clouds almost continuously from c. 8-4.
Heavy rain 1-1.30 PM. Thunder this evening
(thunder very high since we have been here). Wind c. SE

Potenzated restwands along the crest line ca. $1\frac{1}{4}$ - $1\frac{1}{2}$
miles - by a new track cut by Fienel yesterday. Highest
elevation 850 m. by aneroid, which must be wrong. We
will have to see the marine charts for altitudes here -
about. The 1-mile map is quite unreliable for any-
thing. A Dicksonia probably the most important plant
collected. Found more orchids. Two sp. Myriophyllum.

Fienel cut further along the ridge crest in the clouds,
reaching 800 m. by aneroid.

Another young gray rat in ca. 175 traps set. Leon
Pogonomys cut from one trap by the boys. Three boys
checked for nothing last night; Res, for a while before
down, shot at two bats. A comparison of Pogonomys
total-length measurements by Res shows the Normandy
animals to be much bigger than those of this island;
the mountain forms bigger than the lowland on both
islands.

Photographed soon after sunrise the newly opened views to
the N; Straniceus against the morning light. Clearing
finished this afternoon; a grand view of the island from Mt.
Mayala to the NW to Mt. Kithman (the N slopes) to the NE.

Some Morima people brought coconuts, limes,
& a few taro, kabi, & sweet potatoes to sell for tobacco.
These men with dogs came to inquire into the matter of
hunting for us. Not eager to start on Sunday. We

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THE HISTORY OF THE UNITED STATES

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offer 10/- for the black forest wallaby (Dorcopsis), which is said to be found sometimes on small streams in the mountains, 5/- for caracaras & bandicoots, 10/- for the first Dactylopsila.

A fresh supply of batteries from Tamara, expected today, did not arrive. By arrangement by Liang over the radiophone from Napamoiwa, the "~~Kedeluma~~ Kedeluma" was supposed to have dropped them at AHUUAH yesterday. The Marime people today said the boat had not arrived. Jacking now being done on HING WAH "Five Rivers" batteries made in Bangkok, bought at 4/- each by Liang from Wibben's track store at Napamoiwa. This will be about their last effective night.

Among today's plants was a fruiting specimen of an epiphytic small-tree Rhododendron, past flowering, but with great fruits 17.5 to 19 cm. in length. Will save seeds if they seem mature enough. Another epiphytic small-tree Rhododendron grew beside the first, past flowering. On the highest spine crest grew a Xanthoxylum or Diospyros with small, pointed leaves - a "moss forest" element, but I would apply this designation to the forest as a whole (perhaps a stunted rain forest).

Sunday June 10: Clear, hazy dawn. Showers, some heavy, from 10 AM through rest of day. Last night was clear to starry.

Returned perhaps 1000 feet down the AHUUAH-UKICKO track. Mostly good track on the crest of a spine on which some fine Straniceles grew in oak forest. Went as far as a ferny (Gleichenia) rest clearing, when rain & thick mist drove me back. Half-hour's walk back to camp. Two sp. of Byrrh (one of which was of 1800 m. in Goodenough) the most in abundance of ca. 20 plants collected. Weather prevented continuation of track cutting on the high crest by Liang, who sent word to AGAMOH for carriers to move us down on Monday week.

Nothing in traps; no results from jacking last night. The day for mammals saved by the arrival, about

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1 o'clock, of a cheerful Marima man with 3 Pezomachus cut from a tree & a young bandicoot caught by dogs. Had a young son & two dogs with him. Game & went in rain. Will sleep in his village & come up to us when he has specimens.

Lionel has a bat net on edge of camp tonight.

Monday June 11: May 23, min. 19°C. SE weather of yesterday continues. Went in the traps by 9 AM. Rain before noon & most of afternoon - on & off. Weather is hampering botanical field work. It brings heavy conditions which are against photos of the fine view from camp.

Collected this morning the fine Strawberry of this island. It looks like St. cunninghamii but could be another species. Picked a small but old tree 30 m tall x 72 cm trunk diameter; cones small, about half grown; photos closeup in color. Was disappointed with the meagre variety of epiphytes on the ~~big~~ old Strawberry: a Hydnophyllum, a Myrmecodia, Felligera & one or two other ferns, one small white orchid & a little reddish Dendrobium in flower, & very few bryophytes. A grey Urosia conspicuous on other old Strawberry.

No mammals got in any way last night. A native hunter brought from somewhere down the Marima slopes (to way?) & brown cuscus & two small bandicoots. He & his son & two dogs are camped in a leaf shelter on the ridge crest nearby. About a dozen small boys & girls, & a couple of young women from the Marima slopes in camp this morning. The bandicoot being got here is much smaller than the 2 specimens from Farnhill.

Lionel cut further along the coast & reached top of a small steep peak 10-10 m. by the faulty aneroid. Clouds prevented his seeing out. Distance from camp estimated as 2 1/2 miles or more.

Tuesday June 12: May 23, min 19°C. Went on & off 9:30 to dusk. Only slight showers, but heavy rain 6 PM - 10. SE continues.

Spent day in camp after collecting a palm family common on the ridge crest. Resembles the coconut-like sp. of Mt. Tobinama, but not so tall; may be another species. Sent boys to collect down to water on the Morimo slopes: ca. 8-10 plants new to the collection.

Photographed a bat (Microstomus), & two orchids (a white terrestrial & a small, dainty Stomera), with close-up equipment.

A big brown Putorius (2nd sp.) in trap; 2 Microstomus in the net at dawn (Rus happened to be standing there after being out with his jacklight), & cuscus, a bandicoot, & 3 Ptilinopus brought in by natives. An excellent day. I have put a limit on cuscus, which evidently are easy for a native to find with dogs. Thinking over interest in Dorcopsis & Dactylopsila. I found today a bamboo from which most likely a Dactylopsila had extracted a grub from holes gnawed in the wall of the internode.

Mammal boy ISUKELE on his third consecutive day off duty with fever & a sore throat. Gave him 2 sleeping pills at 1 AM to quiet his groaning; put him on a camoguin routine beginning today (3 pills per week).

Wed. June 13: Max. 26.5°, min. 18°C. Much rain through last night. Clouds mist to mid-morning. Sunny after that. 55 cloud drift.

Weather kept me in camp, preparing plants, to 10 o'clock, then went down water-pool ravine (± half-way). Collected some good things, including 2 Hymenoptera, a common Asteridium, small Stenacarpus of the undergrowth, Geogyne carpus, etc. I have far more plants on hand than I can dry out; am more than a day behind in getting specimens into the dryer.

The mammal got last night. The native hunter camped nearby brought in this afternoon a fine bandicoot, blackish on back, rich shoulder, & 5 cuscus-cus of various sizes. Have stopped buying cuscus.

Action taken to see what has become of the "Redelunia"

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in the batteries she was supposed to have dropped at Hialeah for us during the weekend. Pinker departed 5 AM for Mosquito with a request for Crosby to get in touch with Huntings by radio phone. The boat went down to the coast at OKECHICO and found that no boat had called in there or at nearby Hialeah. About 10 small boys & several young girls, plus a councilor from OKECHICO, bringing a few bananas for sale but chiefly to have a look at us.

Thursday June 14: Max. 21°; min. 16° C. Heavy SE wind, most of last night; air quite chilly. Little cloud; no mist today; no rain; SE continues.

Worked down to the water-place gully a few little ways along the side of the mountain on the Elginmore trail. Fair log, mostly of ferns of the ravine, also an interesting Rubiacious small tree with small white flowers.

No mammals added to collection except a Sita-sita (Palaemon) shot last night in camp by Russ. The hunters went down the Elginmore slopes for bats & did not return. Tonight the water-place stream is being trapped for the first time. Traps were supposed to have been there from the beginning. Boys need more supervision than they are getting.

Working a double shift on the dryer in an effort to clean up accumulated plant collections.

Friday June 15: Max. 23.5°; min. 16° C. Clear, still night; no mist or rain in the 24 hours; weather SE & heavy.

Worked on specimens & sent boys down Elginmore slopes. They brought back only seven additions to the collection. The locality is about worked out.

16 brown Melomys in the new trap sets on the stream. A Myzomela gambelii in one of the two bat nets set in camp. Melomys is a species new for the island. No insectivorous bats caught so far in the few nights nets have been set on the trip. Also they are now furnished with

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"ractor", is the fruit & nectar-eating species not so equipped?

One of the Morima hunters who have been camped nearby returned this afternoon from a visit to the coast. Brought 3 small Gobsonias from a cave on a creek near UKEOKEO, a Myelomimus is a bandicoot. No one in the boat shelter when I passed it by the evening; hunter has perhaps gone home for good. He has brought a nice lot of mammals for the collection & on local values, has earned a considerable amount of money for himself (he has had a companion most of the time). The man has earned hit so far.

Watched in amazement this morning, Samule eating a great plate of boiled rice after two days of illness & much groaning during two nights. It brought the remark from Lionel: "When these bastards stop eating, they're croak."

Tinker walked into camp at 6.45 PM, having left Mopamouwa at 10 AM, he says, & walked the best part of an hour on a mountain trail by flashlight. He brought mails, but instead of the flashlight batteries we need so badly, a carton containing four bottles of rum. A general mess-up. No note from Brasby, who is being relieved by another EMMA, with whom, apparently, he was having a party. The new EMMA was brought from Tamarua by the medical vessel HEIKAHA, according to Tinker. This vessel brought our cargo, the KEDELUPTIT having broken down. Only the batteries were supposed to come on the Kedelesma (to AILURUMI, on the Morima coast); 6 dozen enamel plates (to replace plaster rubbish I brought in three parts) & 4 bottles of rum were to be sent by the vessel due to pick us up at IAMELEKE on June 27. Sent on the Heikaha were a case containing 6 dozen plates & the batteries, & a carton holding the rum. Brasby gave Tinker the rum; the batteries are still at Mopamouwa.

Sat. June 16: May. 23°, min. 18° C. Light rain with heavy mist from dawn to about seven; misty to mid-morning. No further rain. SE weather.

Tinker, having volunteered to go back to Mopamouwa, departed about 8 AM with a letter from Lionel asking

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that the batteries & 1/2 day. plan to be extracted from the parking
can't wait back to camp with him. The HEKANA is
supposed to return to Tamarua tomorrow, & could drop
Tricker at Hialewai on route.

Botany down the crest of a spur by which an old
path descends in the direction of NIUBUA. Some additional
plants from last excursion for this mountain camp, mostly ferns,
including the first fertile Clapnetium for the trip, also a
small tree of the Stralocaceae.

One small gray Rattus in traps. Nothing packed, although
Rus fired two shots before daylight. Kim, also out before
dawn, came across something in the forest which must have
been either a dog or Sarcopsis, but being a cook rather than
an accomplished hunter, he had no shell ready in his gun
& the beast got away.

Our 1953 employees, MIKO, & several children up
this afternoon from the Morimo side to relieve our 3
Morimo boys of their Saturday tobacco issue. But we
are running short of tobacco & the boys were issued
only one stick apiece to give away, or with which to
buy betel-nut. Then boy GALUWIMIT sent to
Tamarua this AM to get a fresh supply of tobacco
from one of our locked boxes.

Sunday June 17: Wind 23, rain 18 (Frequent stray gusts
of SE wind last night, scattering Tel. Camp &
Goodenough Tel. in 1953. Light rain with mist 5:40 to ca.
7 AM. Sun & cloud ca. 5:50/6:00 after that.

Day devoted to drying collections & packing for
transport to Ogamua tomorrow. Some letters written.
One small gray Rattus in traps. Tricker & Kim packed
last night for no results.

The strong south-westerly will make landing difficult
on the exposed Morimo coast. Another complication in the
battery situation.

Have 229 plant numbers (including 18 bryophytes)
for this camp. A nice lot of orchids & ferns. Few
trees in flower or fruit. The only well defined major
communities are the oak forest in which we are camped.

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to which covers the crest of the backbone ridge just above camp. On the ridge top then the trees are only 30-40 ft. high & there is much moss on the trees & ground, especially in shaded woods about the bases of the bigger trees, which develop short stilt roots. The rain forest occupies the water-plain ravine, where an abundant Antiaris undergrowth (Antiaris) is present. On the narrow back crests of the higher parts of the backbone, to the east, the very mossy, shaded forest carries small-leaved Xanthomyces (or Diospyros) sp. as a subsidiary tree, but there are no oaks or beeches in the forest is perhaps a mixed rain forest of sorts. Two Rhododendron sp. (in fruit only) found in the very shaded poor shrubby forest. Apparently the crevice above the oak forest is too precipitous & the ridge too narrow for occupation by either oaks or Wolffia. I found Wolffia on Goodenough & Ferguson Islands & I hoped to find it here. One of the best things botanically is the fine Stranvaesia associated with the oaks on the crests of spur ridges (mostly lateral spurs) & which go down the slopes to probably 2000 feet.

Including Delonix from the Urosaurus crest, & other things brought in by native hunters, there are 62 specimens of species for the camp (Rattus 12), Pogonomys, Melomys, Delonix, Macroglossus, Candiacat, Photomys, Petaurus).

The locality has been poor in insects. There was one rather good swarm night for moths. Very few butterflies were taken; only one big dryadula; a good lot of damselflies mostly found in the forest far from water.

Bees have turned up well. Only one skink (like a sp. in the Normanby mountains) species found. No other lizards up at present from a jacket packed at night. No snakes.

Monday June 15: Heavy rain 4 AM to around noon, rain was still falling when I left camp with my two boys to collect on the way down to AGAMICIA. Left the mountain camp 7:50, arrived Agamia 12:10, several small showers on the way. Heavy rain after all commenced arrived (c. 2 PM - 3). Rain from SE.

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Good fortune was with us today. At 6.15 AM Tinker turned up with the 12 dozen batteries that have given so much trouble & sustained about 100 miles of travel; he had slept at UKECKEC & a young Morima man was with him. Eight Morima men & several small boys turned up a little later to assist in the carry. With these, & over 20 from the HAGAITOIT villages, we had more than enough (had 30 loads, but somehow, they were carried by 33 people). The carriers were still arriving at Olgamoa when GAMBWINAT walked in with an 8-pound package of tobacco from IAMEHEHE.

Among the Morima men was INOHOB, our cook on the Fly River Expedition, bearing all over, but much emaciated as if through a wasting illness. It is good to have these old boys of ours turn up to say hello, & someone with our former staff about old times.

The journey down was only about 3 hours for carriers. Looking was bad on the steep slopes, & hard work than on the way up. Had a lot of steps cut in the pale grayish soil of the main oak forest ridge. Much of the travel through second growth rain forest on steep well garden land up to ca. 1500 ft.

Collected 18 plant numbers on way down, bringing the total for the mountain trip to 247, plus 983.

One of the Morima brought a fine Uromyces, complete for sp. the first we have for the island.

Tuesday June 18: Cloudy day; heavy rain between 2 & 4 PM.

Collected on a grassland patch of up to 100 acres a short 2 hours walk ca. 1/2 of camp & at perhaps 600 ft. altitude. Treacher ridge except for a few widely scattered Leptanthes trees (sterile). Grass burnt in patches; mostly Renealmia, with a sparse sprinkling of Catalpa, Sorghum, Plimonia, etc. A little Impatiens in places. Herbs: Primula, Trichostema, Malacraja, Peckmannia, Phytolacca, Cassia mimosaefolia, Crotalaria linifolia, etc. Loxites was indeed. It is seen from our mountain camp, then on several similar patches in the neighborhood. They hot on the open ground after two weeks in the mountains.

Trout, jacking last night, shot 2 carriers, a side snake, & a Uromyces. Ran a census; Ran saw nothing. Trout getting up at 4 AM, bagged a water bug on the grassland patch & later visited. Three Pogonomyces brought from a native this afternoon for a stick of tobacco pipe. & Tom Pogonomyces shot this evening by Trout & Ran.

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Wed. June 20. Cloudy on & off but only very slight, brief showers. SE wind. Clear last night.

Returned down the government trail to KAI BUK, then down the bank of the creek perhaps 1/2 mile. Most interesting plant was an Crotalaria, a genus I have only seen on the mainland before. Will collect some in near forest second growth of the usual Macaranga - other species type. A big Ficus collected, conspicuous by its umbrella crown of delicate branches.

Lionel, taking Tinker, left for KERIDIA (GOSMA Bay, where Lionel Guinness has a 1000-acre coconut plantation) at 7:30 AM. Purpose of the long walk, partly to examine our proposed camp locality at DEIDEI, partly for exchange of some. Lionel has not had much physical exertion during the past two weeks, & he likes movement.

~~From the~~ Tinker, jacking results last night were one Pogonomyia, 3 Phanogamus, 1 Palaemon, 2 Leptocaris, 1 Palaemon, Tinker got 2 Phanogamus, 2 Palaemon. Res shot & lost a couple of things. One big brown Bat in traps. The skinnings, food was somewhat damaged, however, by the loss of the 3 Pogonomyia, purchased yesterday. Res left them on his skinnings table last night, & no doubt they were eaten by some prowling village dog.

The ~~day~~ day has been eventful in another way for the mammal department. Res finds himself out of animal skins. Not a skinnick left. As he is not, where his supply is packed at Samalele, he will have to go down there himself tomorrow. The journey there & back will be at least 10 hours of walking.

Res has broken the Antar camp. Had no wind trouble & settled up with the shelter out of action.

Thursday June 21. Heavy rain from a thunderstorm between 10:15 & 2 o'clock last night. Res for about an hour in mid morning. Thereafter mostly overcast. SE (driving) tonight.

Res, with GALUMINA carrying a basket & some sandwiches for him, left for Samalele as day was lightening at 5:45. Returned at 6:15. Took 5 hours for the down journey, 1/2 for the up. Is in fairly good condition, though tired tonight.

With small boy IDAWAWAVETA, son of the local mission teacher, as guide, I went to Lake LAYU in the center valley of the island. It rained by rain, the down journey took 1 3/4

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hours. Collecting on the return journey made it 7 1/2 hours.
 Followed from the TUBERA trail at the foot of the grassland
 patch a bush track with many branches & on approach to the
 lake climbed over a low range of hills. Reached shore on
 E side of lake, where people from this part of the country
 have a fishing camp. Then steep - to. On a point of land
 ca. 1/3 mile to W. was a native hamlet & in front of it a
 small outrigger canoe on the bank. Throwing of women there
 then apparently away at the gardened a lot of activity here now
 in clearing new ground).

Was impressed with the efficiency & complete harmony with
 the environment of my small guide. Half hour or so from
 the lake we passed a new garden house occupied by a woman
 & two children (one of whom went bush when he saw us). Here
 the small boy procured a firestick. At the lake he started
 a smouldering fire under the shelter, found somewhere a part
 of line & a hook, picked up a pole on the bank, & in no
 time had ~~caught~~ caught a fish. By 11 o'clock, when I called
 for rice to be cooked for the boy's lunch, & my tea tilly
 boiled, the youngster had the fishes of small edible size.
 He offered my my choice. I took three of two apparent
 species as specimens. The rest he killed by beating with a
 stick, then dumped the string on the fire. The bait was
 a small, pale shrimp caught in the roots of the "water lettuce"
 (Pistia stratiotes); I have 13 as specimens, plus 18 small
 damselflies from the grassy shore.

A disappointing day botanically. I expected a bag of
 waterplants. Got only four fern (Pistia, a white Timnanthemum,
 an amphibious Cyperus & a remarkable amphibious
Scirpus 2 m tall & with very thick 3-angled stem.) Then
 too steep & water too deep where I was. All second growth
 rain forest from the grass patch to the lake. Some big
 IKIMO trees on the flat lands of LIHAI track. Good sandy bank

In water birds I saw only a medium-sized gray heron
 & a pair of jacanas. No sign of a crocodile which are
 said to be very plentiful. There appears well stocked with fish.
 Water sweet. Rock of the steep shore looked like a schist.

At the two mist nets beside flowering Kapok trees in the village, hoping for small flower-eating bats. One so far several nights when Papio flies near the mistnets has yielded nothing. The juvs fly around it as they would a boy stalk. Kapok is a successive bloomer.

Friday Jan 22: SE weather continues, more a less w/ly. Rain enough last night to stop jacklight hunting. Sharp shower between 1 & 2 PM.

Collected in primary rain forest (the only area I have seen in the neighborhood) down the track towards the grass patch for rain species including a cylindrical-fruited Santalum which looks like one I collected at WAKHIVUVA & one at IMETELELE. A splendid red-backed Warbler is plentiful & very conspicuous, but sterile. Some few other trees of first magnitude are present.

A Macropygia is a Salsola, plus a scrubbird & another small bird in the garden early this morning. Nothing in traps last night. Jacking by Kim & Liklik spoiled by rain.

Lionel returned about 4 PM from KEDIDIA, a ten-hour walk. Report good travel is gradual ascent through the SAPAKADI country to the Salama River divide. Salakadi population extends about 1 hour past the divide. Then 2 hours travel through uninhabited primary forest. Over 40 streams crossed. 16 villages en route.

Lionel reports an outbreak of something which is killing the fish in the seas off eastern Papua & from Goodenough Island east a south through the SE to the coast. All residents on the radio circuit have had official notices about it. Official opinion is that the cause might be seismic, or biological (i.e. "red tide" of Florida). Toxi-
Vetconologist Taylor reported on his way to investigate.

Most of our boys spent last night at a big feast & dance at one of the TUTUBEIA villages, 1 1/2 hours walk from here. Lionel, who passed through the village this PM, reports a big affair with hundreds present, a great show of pigs, root foods, & bird nests. The climax comes tonight. Tutubeia appears to be the beginning of the Salakadi country. Here at Ngamoria the officials are with Pagubulu.

Sat. June 23: No rain last night or today. Some thunder & dark clouds up valley in afternoon.

My last day in the field here. Went up the mountain track to where it branches left to villages, then splits again. All second growth forest beyond the road fork. It is a bit of primary forest in a jolly yielded a few interesting trees including two of Ficus - one with shining Ternstroemia-like receptacles.

Despite poor collecting, I have more material than I can carry with the one ox I have with me. Am continuing to collect in series of nights when the material is available.

Ran short last night a Petalium & a Gobsonia. This afternoon he & Lionel visited a cave about a mile N down the slopes from camp & collected two Gobsonia & 8 Rhiposideres cecinerae. Cave is under a horn-shaped waterfall, about 100 ft high, to the E of the grass patch. Said to go in ca. 60 ft & have three short branches. Entrance in water waist deep. Rock said to be a sort of conglomerate. Name of cave ATA NIBOTHAN.

Sunday June 24: Again no rain

Buying plant collection & pickling one beside for transport to the coast tomorrow. Have 82 numbers 500 sheets of specimens for the camp. It poor locality for me. Most of the forest is second growth.

A Wallaby is a white-tailed Pogonomyia, shot last night by Lionel. Lionel, out jacking, confined his attention to bats, & got nothing. Boys, sent to the bat cave this afternoon, returned with 10 more Rhiposideres.

Have boys leave off this afternoon to attend church. Service held at the regular time, but when the congregation assembled from outlying villages some metal object is banged as a signal. Other missions I have seen, at Pamela & Thibete, have 10 drums.

Monday June 25: Back at Imelele I. Had a good fine day for the transport. I left Agamoa at 7:20 with the intention of botanizing on the road and, lurching on a small stream about an hour the other side of Fagilulu, arrived at Imelele at 3:15. Bus passed me on the road and arrived about an hour earlier. When I arrived the carriers were just beginning to come in and drop their loads - 32 of them. I traveled by the Fagilulu-Miubuvo road; the carriers and Lionel by another road which went first to Lake Laru then down the flat lands of the valley via Imelele #2. This road muddy in places and the distance much greater than by the hilly Miubuvo route. Lionel had more people (Agamoa area) offering to carry than he had loads. He left Agamoa at 8:20.

Everything left at the Imelele resthouse (in charge of the VO) appears to be in good condition, and intact. The VO is not a person who has inspired confidence, but he was the only man to leave in charge of our cargo.

The first part of the paper discusses the general principles of the theory of the atom. It is shown that the atom is a system of particles which are bound together by forces of attraction. The forces of attraction are of two kinds, namely, the forces of cohesion and the forces of adhesion. The forces of cohesion are the forces which bind the particles of a substance together, and the forces of adhesion are the forces which bind the particles of one substance to the particles of another substance.

The second part of the paper discusses the properties of the atom. It is shown that the atom is a system of particles which are bound together by forces of attraction. The forces of attraction are of two kinds, namely, the forces of cohesion and the forces of adhesion. The forces of cohesion are the forces which bind the particles of a substance together, and the forces of adhesion are the forces which bind the particles of one substance to the particles of another substance.

The third part of the paper discusses the applications of the theory of the atom. It is shown that the theory of the atom can be used to explain the properties of matter. For example, it can be used to explain the properties of solids, liquids, and gases. It can also be used to explain the properties of acids, bases, and salts.

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Tuesday August 14: A heavy rain squall from the SE delayed our departure from Bwagaia until 8:40 am. Eric Ryan is not a seaman and is rather timid about his boat. The "Titan" is a 40-footer, sloop rigged (she at lease carries a jib), and has a new 40 hp Ailsa Craig engine. One bunk in the wheelhouse aft; no accomodtion for passengers. Ryan uses her as a trading boat, picking up copra and shell, and selling manufactured goods. Has a big stock of trade on board this trip.

Had a rather rough passage on the open water past the Renard Islands and until we passed through the barrier reef of the Calvados Chain. This was at 1:30. At 2:25 stopped at the big island of Pana-wina to set down a native passenger at Bunting's coconut plantation. At 4:05 anchored at small Nigahau Island to trade. I went ashore. Some goods sold for cash and bags left to be filled with copra which Eric will pick up on his return journey. Very clean village with about 20 houses. Houses quite big as a rule. A government resthouse and a new RC church, the latter still unfinished. The mission has a native woman teacher here. The resthouse used as school. Several big built-up canoes on the beach; painted white. A number of Japanese green glass fishing floats in the village. Left Nigahau at 4:45 and anchored for the night at Grassy (or Manim) island. Slept in the government resthouse on NW end of the island. Sandflies bad; big old megapode mound at resthouse; megapode calling at night.

Wednesday August 15: Left Grassy Island 7:15 am. Village on north end of island, close to resthouse, has several old-style hog-backed houses. Gardens being cleared and burned in relic bit of rain forest in gullies on the slopes. Passed along the south coast of big Pana-tinana or Joannet Island. Good forest cover on the west end of this island. All the islands of the Calvados Chain are hilly. Much grass on some of them; secondary condition following deforestation for cultivation. Looks like the dry season for these islands; numerous smokes from grass fires; many patches of newly burned grass. Reason for burning the grass not plain; there are no wallabies on the islands. Anchored to look for trade off a small village near Son-of-a-Bitch Point on Pana-tinana. A good bed of gold-lip pearl shell here, in 18 fathoms, and a number of lives have been lost in diving for it. Hence the name of the point, which seems to be Utana Point of the chart.

Anchored at Ninoo at 9:55; headquarters of the Catholic Mission in the Louisiades. Good buildings; very well kept. Father Twomey, the one priest stationed here, was away in Samarai. Brother King, very young, clean looking Australian from Laverton, Victoria, temporarily in charge. A convent with three European sisters, whom we did not see. Big white statue of Christ on the cross, and a flower-bedecked grotto of the Virgin. Brother King offered us rum and water. We had morning tea with him- nut bread and pretty little cakes and iced cookies. Mission has electric light and a boat. About 170 boys and girls in the school, which is now out on holidays. Mission has big food gardens on Sudest, across a couple of miles of water to the south. Our call at the mission was largely to arrange for cargo from Samarai to be dropped there for us, and for making an arrangement with the mission to forward the cargo to us in their boat.

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Left Ninoo 10:45, passed Griffin Point at 12:45, anchored at Joe landing at approximately 1:30. A good resthouse at Joe landing (proper name, Inagailau), and from it a track crosses the island, close to Mt. Riu or Rattlesnake, the highest peak (2645 ft.) on the island. A village policeman, one Bom, here. Genial man of middle age and small stature, well covered with sipoma. Remembers the time when (about 1914-15) one of the Eichorns went in from Bowla village and spent a week on the mountain. According to Bom, Tommy Craig was with Eichhorn. Bowla village, perhaps 2-3 miles east along the coast, is no longer in existence;

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according to information received at the mission; a new village, Areda, has been built, about half-way between old Bowls and Joe Landing. Room enough in the resthouse for the three of us to live, for storage of all our gear and supplies, and for Rus and I to work.

Had news on the radio that the scow "Kari", on which we traveled from Samarai to Bwagaia, was wrecked about ten days ago on a reef in the Egum Group and is a total loss. Crew and passengers (2 Europeans included) were all picked up by the "Muniara" on the 13th. The Kari was bound from Woodlark Id. to Samarai. Ours was probably the last trip she completed. A vessel inadequate for the job she was doing; her native skipper seemed competent enough but seemed to allow his crew to make decisions for him.

* Thursday August 16: SE wind still blowing, but here on the lee shore of the island we are sheltered and get only a cooling breeze in the rest house. Some cloud but no rain.

Boys rigged the drying units and made a work table of sago midribs and later joined me in some botanizing west about 1/2 mile or so to the mouth of a small creek. Shore fringed with mangroves 20-60 ft high; Rhizophora, Bruguiera, Avicennia, Carapa, Heritiera, etc. but not a mangrove seen fertile. The crab-holed mud gray and clayey and containing much broken white quartz. Shingly gravel in creek apparently mainly shale. Entire-leaved, white-flowered Acanthus forms thickets up to 2 m high where rain forest joins the mangroves; Asplenium aff. nidus also growing there in large pale clumps on the muddy ground, where there was also a common tree-fern (Cyathea), and a hepatic on the ground. Some unusual occurrences for a subalpine habitat. A big Entada climbs to the tops of the trees in the ecotone.

The gray soil along the coast is dry and hard. Evidence of this being the dry season. Village rich in - or infested by - pigs (mostly spotted and of fair quality) which must foul the place badly in wet weather. Only a small village of eight houses including the rest house. Our boys sleep on the ample porch of the house of the VC's younger brother. Front row of houses built right on the water's edge among tall coconut palms. Most of the villages seen on this coast are back from the mangrove coast and 100 feet or more above the sea on the frontal line of ridges. There is a gap in the mangrove fringes, a couple of hundred yards long, at Joe Landing. No sandflies or mosquitoes have attacked us so far.

No traps set last night. No shooting; this to give a chance of a shot at a big crocodile said to be in the habit lately of crawling up under the houses during the night. This croc not afraid of the natives, and will not be hunted away by them. For several hours Eric (who decided to stay at anchor here to trade) and Lionel crocodile-hunted with dinghy and headlamp along the coast to a big creek about a mile to the east. They saw nothing. Tide perhaps too high, they thought. Alec shoots for their skin any crocodiles he comes across. An average skin worth about five pounds.

A little black-lip shell dived for on the reefs here. Eric pays sixpence a pound for it if of good quality. He also buys small quantities of the Sudest gum. This, said to be gathered mostly by the women, who pick it from the bases of the trees or the ground below the trees.

There is on the gravelly beach a big new white-painted built-up canoe which I asked Bom about this evening. It was bought from Booker Island by a rich native who lives in the hills above us. (Like dim-dims, says Bom, some natives are rich and some poor). The price paid for this canoe was five pigs, 200 lbs. of sago,

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20 baskets of native food, and 40 pounds in money. These people have trade with Bookler Island. From the Bookers they buy or exchange cooking pots for sago and baskets which the women make. There is also trade with Rossel, the red coconut parrot (and perhaps other species) being traded for bagi (shell money). For a parrot the Sudest people can get a string of bagi worth up to about six pounds. Pigs also traded to Bookler Id.

Lionel shot this ~~area~~ ternoon four blue pigeons which provided us a really excellent meal of soup, breast steaks and wings and legs. Mostly the cook overdoes fresh meat. This evening I gave him the ample leftovers to eat and savour, so that we may hope for a repetition of this evening's success.

For some reason which I donot know and have not inquired into, the white traders, I am informed by Bom, are not interested in buying gold from the natives of the island. Gold is to be had in "plenty," says Bom. They can't sell it, so don't work the streams for it. All the traders ask for is copra, shell, and gum. In Samarai I saw recently in the illicit possession of Fred Riley an estimated $\frac{3}{4}$ -1 oz of good coarse gold which had been bought on Sudest at 6 shillings a pennyweight, the regular price according to Fred. Gold buyers have to be licensed and declare all their traffic in the metal. Riley was drunk and spilled about half of his gold through Buntings back steps.

Friday August 17: Heavy rain from 4:30 am to about six; drizzle until about eight; sharp ~~shower~~ shower about 11 followed by drizzle. No rain afternoon or early evening. SE weather.

Lionel was to have started this morning on a reconnaissance of Mt. Rattlesnake (or Riu) but the councillor who was to be guide, and the carriers, did not turn up. He is ready for an early start in the morning.

Botanized inland to a distance of a mile or better by a good track which climbs quickly up a kangaroo-grass spur from camp. Reached an elevation of perhaps 400-500 ft., which I have called 100 m. on the plant labels. Forest in the gullies on both sides of the spur. Secondary at first. Later primary forest relics from which I collected some good trees (Syzygium, Parinarium aff. nonda, Fagraea, Weinmannia, Buchanania). A good soft cover of Themeda, about knee high or less on the open ridges. Collected an Ophiurus? and saw Sorghastrum and Eriachne? in grasses. Accompanying herbs practically identical with those of Fergusson and Misima. Pimelea, Euphorbia (Chamaesyce), Phyllanthus, Borreria (not previously collected), Osbornia, Hypoxis, etc. A small shrubby snapdragon fig scattered on the grassland ridges as a shrub.

Shot last night were 10 specimens of mammals (Pteropus hypomelanus, P. conspicillatus, Phalanger orientalis (very dark), Nyctimene geminus, Dobsonia), and taken from about 130 traps out were two rats which except for their white bellies looked like Rattus ruber. Only three mammals previously recorded from the island: Phalanger orientalis, Pteropus hypomelanus, and Petaurus brevicaeps. We heard the Petaurus last night.

Work on camp rigging and conveniences finished this am. Some insects and frogs collected. A spell of poor weather for field work.

Saturday August 18: Heavy intermittent showers most of day from 6:15 am. Some sun in mid-afternoon. Still more or less rainy tonight. SE weather.

Started late into the field, to east of camp along coast, and gathered in all 15 numbers. Nothing of special interest, perhaps. A common Pandanus of green flowered oceanish behind mangroves, with syncarpous drupes. A small Gnetum.

*Pandanus of open places
A green flowered*

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Psychotria

A rubiaceous small tree which comes close to Psychotria, but is strange to me.

Nothing in traps last night. Two Bobsonia and a Nyctimene shot by the cooks. Rus, complaining of being tired after a day at the preparations table, went to bed. Lionel has a poisoned foot. ~~Tonight, Lionel is out in the drizzle, shooting Rus is reading a book.~~

Two natives went fishing this afternoon and from them we bought, for two sticks of tobacco each, two fine big green-mottled crayfish which seem to be have the local name BAGIA, and two somewhat reddish fish, bought for one stick the pair. Ate as much as we could of the crays this evening. Kim, as he is apt to do with anything not handled every day, made a mess of the meal, cooking it too early and serving it cold. Four blue pigeons shot yesterday. What with excellent pigeon soup, and quite good tenderized pigeon meat, and today's seafood, we are doing well off the country. We are getting only a few sweet potatoes from the native gardens. This seems to be a time of shortage. The ground was dry when we arrived here. Bom says the crops were suffering, and that the present rain was achieved by sorcery.

As was anticipated, no carriers for the mountains turned up today. A start by Lionel tomorrow is possible. The people in the inland village, where the councillor lives, are Methodists and will not stir on Sunday. The Joe Landing folk are Catholic, however, and Bom says the young men will carry if the weather is fine. The guide will have to be the councillor from the inland village, who alone seems to know the way to the top of Riu.

Sunday August 19: A lot of strong SE wind during last night. Fine this AM until about 10 O'clock, when drizzles began, clearing late in the afternoon.

Lionel unable to get away again today. This is contributions Sunday for the Methodist Mission. Native adherents have gone to give money and garden truck to the Tongan head teacher, or whatever he is called, who lives at Rambuso and yesterday went to a village west a few miles along the coast to do the collection.

Worked inland up the track to a distance approaching two miles from the sea and altitude estimated at 150 meters. I omitted to record that a week ago today, "Drunken Sunday" in Bwagacia, when the young government officers left for Samarai with 2 dozen beer and 11 bottles of rum for the two day voyage, Fitzer threw our aneroid into the salt water at the wharf. I still don't know how Fitzer came to have the instrument. No native would dive for it. So Lionel went down in 5-6 fathoms and brought it up. The aneroid is now on the way to Australia for reconditioning.

A good day for mammals. Nothing in traps. Two or three Nyctimene shot by Lionel last night; a big Pteropus by Rus. The spare boys, out this morning some distance inland in the primary forest (?) got a very different looking adult Pogonomys and a half-grown young one. Body short, tail long and heavy, feet very big. Must be a new species. This evening Lionel shot at dusk a russet Miniopterus new to the collection, unless it is a color phase. This makes 8 species for the camp to date. Not bad for an area largely deforested.

Learned this morning of old gold mining tunnels in the lower mountains, made by Tom Morley before the last war. Rus went up to the inland village this afternoon to arrange for an excursion to the tunnels Tuesday. Two inland villages seen by me this AM. Visited only one, Erinamoia, where the councillor lives, c. 1 1/2 miles inland and at about 400 ft. Clean place of 15 mostly big houses.

Botanized mainly in relic strips of primary rain forest left in the gullies.

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Apparently a strong endemic element, also a considerable number of species which I also collected on Misima (white-flowered Proteaceae, Symplocos, Nepenthes mirabilis (without mousey odor). Found on the grasslands a Velloia (Goodenoviaceae) a genus I have only once collected hitherto in the new Guinea - west of the Fly River. Picked up the fruit of a winged dipterocarp which I could not otherwise discover. Different from the tree of the Misima mountains (fruit much smaller).

Monday August 20: A scud of rain at dawn (5:45); others through the morning. No drizzle in afternoon; Rus had his mammal trays on an outside drying rack.

Lionel at last has left for the mountains. Got away at 7:15 with 3 carriers, 2 spares to cut track, and the councillor as guide. Probably he will strike wet weather above about 1500 feet. The SE continues, piling clouds on the mountains.

A backlog of plants which I did not have time to prepare yesterday, kept me in camp until nearly 8 o'clock. Then went along the coast, west, for rather better than 2 miles. Collected 17 numbers; some of them still on hand, as I have run out of driers. This seldom happens. Have averaged 16 numbers a day for the camp. Not bad for an area largely deforested and occupied by migrant grasses and associated herbs few in number. An unexpected find was an Antidesma (probably A. ghaesebroukii) which I don't remember seeing this side of the Port Moresby Grasslands (it grew on grassy edges of the mangroves).

Nothing in traps last night, although one or two new lines were in operation. Last night Rus jacked a Dobsonia and a small Pteropus. Six Nyctinene were caught in a net set at a fruiting Jambosa tree within a few feet of the resthouse we live in. Today Tubuka and Simp Sipoma brought in 5 Pogonomys out from trees, and VC Bom contributed two more. This Pogonomys is a beast very different from those we got in the D'Entrecasteaux. Has a skull squarish on top, and three lines of cusps.

Our Gosiagos give evidence of being happy on Sudest. They have been singing for hours in their quarters this evening.

Tuesday August 21: No rain in the 24 hours. Mountains (Riu) clear till at least midday. Natives are burning the grass again after the rain.

Botanical project of the day was the collection of the tree from which the "gum" of the island is collected for export. Had VC Bom as guide. Came upon the trees in primary rain forest of the little valley of Vulanitu stream, about 2 miles inland and altitude of 400-500 ft. Vatica sp. probably papuana, called Guimbur by the natives. This produces a reddish gum (so described by Bom) which is the chief product sold. A whitish gum (no doubt a resin) is obtained in small quantity from a dipterocarp with winged fruit, called Walei (said by Bom to be called Rul on Misima) which occurred abundantly in ridge forest further inland. This dipterocarp as plentiful or more so than any other tree in the forest of the ridges, which have only fair timber volume. A common larger tree is the Syzygium I collected on Sunday. The Vatica where I saw it was the commonest canopy tree but small (about 20-25 m tall x 30-40 cm dia.).

Rus, with a guide and two or three hangers-on from Erinamoia village, made a 7-hour excursion to a mine tunnel much farther S or SW said to have been made by one Manning. A well dug tunnel, according to Rus, which went in a long way, but could not be entered far because of deep mud and water. Literally thousands of bats flew out when a shot was fired into the tunnel. All Miniopteris, but in two sizes and probably two species. About 50 collected with switches outside the tunnel.

3100

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Lionel returned from the mountains at noon - unexpectedly early. With good travel, he reached a camp site in the forks of a fair-sized creek at an estimated 1000 feet, at the foot of Mt. Rattlesnake (or Riu) in $5\frac{1}{2}$ hours from Joe Landing. From there climbed nearly to the summit of the mountain, past Eichhorn's reputed camp site of 40 years ago. This took 2 $\frac{1}{2}$ hours. No water near the Eichhorn site. A good second site for a camp on the track about 400-500 ft. above the creek, on the crest of a broad ridge. Mossy forest conditions not encountered anywhere. Description of the second camp site appears to indicate oak forest, and Tinker carried an acorn back in his pocket. Rather disappointed in the report. We will not be able to camp as high on the mountain as I hoped. The summit area should be attainable for botanizing from the second camp site. Altitudes are, of course, estimated, now that we have no aneroid.

Had my first sight of Riu from Trimanoid village on the way into the field this morning, and another view from a $\frac{1}{2}$ mile or so farther inland. It would be an exaggeration to call the peak a Matterhorn, but it is steep towards the summit and very limited in area. Viewed from ca. NW there is a side pinnacle a few hundred feet from the summit; Eichhorn said to have camped in the saddle between the pinnacle and the main peak.

Have send out word for at least 35 portiers for early Thursday morning.

Two native sailing canoes from Grassy Island put in at dusk to spend the night at Joe Landing. Said to be on a sago-making expedition. Canoes each with 5-6 people on board (men, boys and women); rigged with a lug sail (European material).

Wednesday August 22: A lot of high thin overcast today, but no rain. Strong SE wind at times.

All busy with preparations for leaving for the mountains tomorrow. Joe Landing has yielded me for 6 days 103 numbers of plants (7 of them bryophytes) and 603 sheets of specimens. A better collection than I expected from a locality largely deforested. The relic rain forests in gullies on the slopes have yielded a good number of trees in flower or fruit. This has been the poorest camp yet for insects. Hardly anything most night from the light trap. Few butterflies and odonata. The best yield has been in spiders. ^{Eighty mammals taken, 9 or 10 spp.}

For the second day in a row, Lionel spent about an hour on the reef with his fishline and a borrowed canoe. Another good meal of fish; the only one I know of four spp. being a red emperor.

For the second night we have been listening to U.S. Armed Forces radio reports on the GOP presidential convention in the Cow Hall, San Francisco. A lot of hoop-la so far, with indications of a fight coming up on Nixon for Vice-President.

There is probably a correlation between the vicinity of insects in small gaps at Joe Landing. Only three insects were seen (65 of two spp. were seen at dusk, and one, a Micropterus, shot.

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Thursday Aug. 23: Good fine day, though considerable high overcast. As usual when we are on the road, the weather was fine but conditions not favorable for color pictures.

Left Joe Landing for Mt. Rin at 7:35 AM with 39 cannon loads. People in good fells. Some came from as far as Griffin Point last night, either to be in the show, for the pay, or perhaps because of word of our coming being spread by the word of the people while on patrol at the time of our arrival on Minime. Had with us, besides the carriers, 5 councillors & a village policeman. Crossed VUKUNITU Creek at 8:30. (In the cannibal raiding days, at the time of the present raiders' grand father, the Joe Landing people, returning from forays to the slopes of Mt. Rin & thereabout, propped up their dead victims on a chain-like ledge of rock on the ridge of the creek, faces painted & looking back up the track, having a last look in the direction of their country). From there a steady climb of perhaps 500 ft. to crest of the central divide of the island, reached at 9:10 after a 10 minute rest at the last water. Difficult to judge altitudes; track in dense primary forest; but altitude of crest perhaps 1500 ft. Travel up & down along the top. Rest of 15 minutes when the track began to descend rapidly to the valley of a fan-ringed creek. Reached the creek at 11:05. Tiomet camped here on his runaway trip. Altitude estimated at 1000-1200 ft. Track called ESILAYA. Had tea & good hot, bully beef sandwiches with Tiomet, who reached this spot half an hour before me. Then on up a nice steep ridge in the direction of Rin for 20 minutes slow walk to an alternate camp site selected by Tiomet. Decided to camp there. Altitude perhaps 1400-1500 ft. Good site on a small knoll with a little stream of running water handy. This the last water found ~~above~~ by Tiomet on his runaway trip. Altitude too low, but the best we can do. Still in a mixed semi forest. Saw no oaks or Castanopsis. Much Volcania in valley of the creek where Tiomet camped. Champis take place in the forest but it is hard to define them or to recognize characteristic trees. Very little seen in flower or fruit.

Clearing the camp site & this morning have a fly in the tent. Tents rigged, plus a cookhouse roofed partly with bark & partly with palm leaf. Palms are scarce on the road except where there

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v. 1930. Caravan paid & went home about 2 o'clock, of the load, sp. rack for the councillors & V.C.

Friday Aug. 14: Fine day but considerable heavy cloud from about east. The wind at camp comes up valley from the west.

Mt. Riu, on direction indicated by Liens, lies 105° magnetic from camp.

Camp rigging practically completed. In the general pattern of events, we leave one boy off duty today with a swollen groin, as a result no doubt of yesterday's walk. Another boy with mild malaria - cooler climate.

Gathered a few plants around camp. Made color photographs of white & purple Senecioium # 27811, collected on the trail yesterday.

Were visited by 3 men from HULA village on the S. coast. They want to work for us. We might get carriers from the south coast for our return to Port Harding.

WVC traps out last night. No jacking.

Saturday Aug. 15: A shower woke me at 3 AM. A shower rain at dawn & after; then fair about one hour 1-2 PM.

Nothing in the few traps set last night. Liens & Res out jacking for a while. Liens finds some shots but got nothing. Two Pogonomys & 2 Petaurus cut from trees by the mammal boys Litz-Litz & Inulele.

Thomson kept me in camp until 7:45 AM, when I set out for Mt. Riu. Followed the pig-hunting track which was Liens' route a few days ago. It went ca. ^{East} for 10 minutes & perhaps 200 ft. altitude, then swung sharply to north along the crest of a main lateral ridge, rising several hundred feet to the now hardly recognizable site of old SIMISIMABATA village. Then about east again, more or less straight for Riu peak. Reached the end of Liens' cut track at an estimated 2000 ft. For track - for 1/2 hour from there I reached what appeared to be the lower sharp crest visible from near Trimanoua. Thence then observed momentarily to give me a glimpse of the true summit, about 1/2 mile to the south & 200-300 ft.

1910

1910

1910

higher than where I stood. Low scrub covered my small crest: Taliphyllum, Melastomaceae, Myrsinaceae, lance-leafed Timonium. At Lionel's stopping place I collected a fine, fragrant white Rhedeodendron growing as a slender stem in low scrub adjoining a precipice. This altitude seemed to mark the limit of a big Lauryclium abundant for 300-400 ft. lower down. Gathered in all about 10 spp. of orchids in flower including 6 Dendrobium. One of the dendrobs is the big spotted white sp. of Misima. Mist, rain, & track cutting hampered my collecting. Got back to camp, wet under my rain-coat, at 3 PM.

Fine, starry night. Only two boys out jacking.

Rain, weather permitting, will finish cutting track to the top of Riv tomorrow. About 2-3 hours cutting from my highest point, I estimate.

Sunday Aug. 26: Overcast most of day; no rain. Had to spend about two hours in morning waiting for brief spells of sunlight to photograph some of the plants collected yesterday. There is always the problem of cloud & wind in clearing cetera photography.

Spent the day in camp, making pictures, & preparing yesterday's gatherings (38 numbers). Included was a small, yellow-stemmed, very slender Calamagrostis, the first of the genus I have collected in the Tonissieder, & apparently identical with a species of Wormwood Island. Saw a much larger species on the mountain yesterday. No Calamagrostis seen on Misima. The Tonissieder are very poor in palms.

Walking in traps last night, nothing shot. Run jacked for 1 1/2 hours tonight, for no result.

Today Lionel took four boys & finished cutting track to the top of Riv. About 1 1/2 hours cutting from my last point. Trade not too bad.

Since the day before we left for Tanclung I have had trouble with my left shoulder. It might be rheumatism, or a coincidence that it is in the shoulder I dislocated on Mt. Dayman in 1953. It could be something else. I have not had rheumatism before.

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Monday Aug. 27: Some showers in morning & a slight one at night fall. Peak of Rio under a driving mist a fog all day.

Abandoned Mt. Rio (Spattermaker). Left camp with my two boys at 7:20 & returned at 4:10 - nearly nine hours without food or water. A difficult mountain for its altitude. It is steep to the south that climbing from there would be out of the question. It rises from the west where it looks like a good approach from HINAI Bay. The ridge to the SSE (continuation of the backbone range) appears to be very narrow & up & down. I caught only partial glimpses of it.

Had doubts about the weather when I left camp. At 9 o'clock, when I was near the 2000 ft. level, rain began & for 30 minutes we sheltered under a pocket cloth carried for the purpose. Decided to turn back, & started to collect. At 10:10 the weather looked like taking up, so I resumed the ascent - it is too gradual most of the way to be called a climb. Reached Lionel's Lookout at 10:15 (no view at all from there on way up, but fine panorama of HINAI Bay (?) on way down in afternoon). My far point of the 25th (about 2200 ft.) reached at 10:30. From there I traveled slowly, searching the shaded forest for Wolkefagus, which I could not find. I reached the summit (2656 ft.) after no map in camp) at 11:00 o'clock. Only a few really steep pinches. Taking over time, the ascent could be made in about 1 hour & 30 or 40 minutes from camp, excluding rest stops.

On the way up, Dacrydium first appeared at 8:30 (c. 1500 ft.) & ended at Lionel's Lookout (c. 2000 ft.). Toward middle-stemmed oaks formed a small strip of pure forest in the narrow, very clayey open crest at about 1600 ft. & were not seen elsewhere. A patch of giant Eichhornia fern in a small saddle under Lionel's Lookout perhaps indicates Eichhornia camp site of 1215 or thereabouts. Between my Lookout of the 25th & the summit the forest is low, more or less windclipped shrub 15-20 ft. high, faintly heavily matted. Two slender tree-ferns (Cyathea) collected there. A pale feather-banded palm (resembling those of the mountains of Mornambey & Ferguson, is scattered through the scrub & conspicuous when one looks over the scrub, but was not in collectable condition. On the summit, the scrub apparently was low enough to be called shrubby, but it had been completely wrecked by Lionel & his boys' footstomping. A circular, fairly level bit of ground about 30 ft. across on top. From the appearance of the wreckage, the

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summit scrub was composed largely of a red-flowered
Metrosideros & two Ranunculus (one with anise-scented bark).
 These spp. are very plentiful down to my lookout (also a
Coleophyllum, which was on top, too). The white Rhododendron had
 been common on top (collected some old capsules which I will
 examine for seeds when dry). A red-hairy Transectia on
 the trees. What abundant Gnaphalium was a fuzzy green
 heliopsis (# 27851) on the tree trunks. Bunches of the stunted trees
 covered with moss-covered roots. Not much moss on the ground.
 Mountain summit probably under cloud most of the year.

Nothing in traps. Two Pogonomyia, gray rather than brown in
 color & with black tails instead of brown, cut from a tree by the
 mammal traps.

Tuesday Aug. 23: Rain began about 12:30 last night & did
 not clear off until about midday. Sunny afternoon.
 Spent most of the day preparing yesterday's gathering of
 39 numbers of plants.

Last night, when the lamp was being carried from my
 tent (where we have our room and water) to the preparation
 fly, where we eat, a great alien moth fluttered to it and
 was stopped to the ground & caught by Liang. An almost
 perfect specimen with wings 11 cm. in length. Photographed it
 today.

Out jacking for about 3 hours last night, Liang
 shot a Phalanger, a Petaurus & a yellow-caped Stropus.
 Tinker got probably the same species of Stropus, but the
 cape was much darker & there was irregular white blotched
 coloration below the cape. Nothing in traps on the two bat nets rigged.

Since Friday, Liang has had a cold or mild flu.
 Now Ken has it. Sprule has malaria, brought on by the rain,
 no doubt. Since a bad attack in the mountains of Fergana two
 months ago, he is supposed to have been on a weekly preventive
 dosage of camograin.

Wild pigs go high — to at least 2000 ft. — on the
 mountain. Many rootings in some places. The stiff yellow clay
 would appear most unproductive of food. On all the slopes,
 including the camp at about 1000 ft., there is only a very
 shallow cover of humus over the clay. The trees of the forest
 spread innumerable stout roots only partly covered by duff
 & humus. These roots make worn paths very uncomfortable to
 walk on with boots.

WIKI FUNDO 19001910

Wed. Aug. 25. Some heavy rain last night; wakes intervals through the day, mostly heavy.

Potanized down a lateral spur which runs from camp down to the creek. Fair results. Two spp. of Gyathus (4th & 5th for Fridest) & a peuple stemmed respiratory critical among the most interesting. The rain forest of the locality seem to have a fair variety of canopy & lower trees, but are very poor in undergrowth, lianas & epiphytes. Even the banks of the big creek are poor. A good case of geographical attenuation? or perhaps the poor yellow clay may be an important factor? The creek rocky & half-susy up to near where ~~Francis~~ Francis had his night camp. From there a sudden change to first broad bottom & sticky (a schist) shingle.

Again nothing in traps or bat nets. The nets moved to the top of the ridge above camp. Jacking last night, Russ got two Stenopus bypomantus, Francis a Pholanyx & a Pataurus.

Tonight Francis & his boy Timber have 10 snare sets in the valley to the south of camp, where Francis reports many small workings in the forest. Russ did not bring any steel traps to this camp.

About 1:30 in the afternoon the Gov standing councilman & two young men arrived with mail & packages which Totten Turney put ashore this morning. A letter from Turney. Only bit of ⁵⁶ packages shipped to us from Jamarcu arrived at Nimca on the "Nimnara." Turney does not want to transport us to Rambuse in a week's time. Plans to be in the Belwada thain at that time. Francis will go down to the coast on Friday & go on to Nimca to see what he can arrange.

Handflies have been bad in camp the last two mornings before breakfast. Found several small brown leeches crawling on me in the forest this morning. My boys often pick them up in their low legs after rain.

30
Thursday Aug. 26. Bright, sparkling day after a rainless night. Handflies bad in camp. This

THE
FIVE
MAY

Retraced down the south - trending spur to the east above camp. Most interesting plants a big Strobilifer? common in these rather characteristic forests of the ridges, a big Gordonia, & a tree-fern (Lyallia) which I think I have collected on the island before.

No mammals in traps, nothing in Ticnel's snares (a total of 25 set tonight). Traps jacked over two hours last night for nothing. Set last set, on a new set on the spur above camp, yielded 3 Muraenoglossus - new for the island.

For breakfast we had eels caught by Ticnel's helpers last night after jacking was finished. Eels fried with their skin on, the eels were rather disappointing. Tom Rice, who gobbles up fresh meat of any kind, had only one piece last night, in the same creek or SE of camp. Ticnel caught for the collection two sp. of cray fish. One, large & brownish, looks like a species we took on Misima. The other, small, bluish with red behind the head & bare clings to the rocks in very fast water.

Friday Aug. 31. Another fine day with no rain in the 24 hours. The mountain clear when I saw it from the spur above camp about 7:30. At 11:00 the summit was clouded over.

Collected in the valley of the stream to the SE of camp. (This runs on R10). Little of special interest. The flora here is poor. However, I have a hoard more material than I can dry.

Rice with his two boys left some time in the morning to spend the night on the mountain. Took Tuboga as a carrier, he returned about 5 o'clock. They are to camp in the saddle at Ticnel's Lookout, where I think Eichhorn also camped. I have traps, a bot net, & will jack. I expect them back tomorrow.

Ticnel to go landing. He will go on to NIMCA ~~the~~ tomorrow (walk along the coast, then cross to Misima by canoe) to arrange for our transportation to RAMBUSA (on Friday 7 Sept., if possible) & to Poomi (Friday Sept. 28).

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THE HISTORY OF THE

UNITED STATES OF AMERICA

FROM 1763 TO 1863

BY

JOHN B. HENNING

NEW YORK

1863

Sat. September 1. It heavy shower at 3:30 AM. Rain through much of the afternoon. Yesterday fell less than usual at 3 PM the thermometer stood at 81 F. in the shade. The lowest temperature noted here is 71 F.

Collected down to Lionel's camp, then up the creek for perhaps 1/2 mile. It fair bog. My terminal point was at a waterfall about 30 ft. high, below which was a small bare near tropical in appearance. There is general for the locality. An ample pole-wood layer gives most of the forest a foothills appearance. Still hard timbers. I have not met with a second growth tree in the locality.

Rex returned from the mountain with nothing to show for the trip. I had out over 100 traps. Packed for only 20 minutes found most of the ridge too steep. Went to the top of the mountain before starting to rig camp yesterday morning.

No mammals in traps set by the cook, or in Lionel's traps, which now number 25.

Galumma, who went to go trading with Lionel yesterday, returned about noon. It later from Lionel intimates a bad mess in the delivery of our "Kumara" cargo. Sixteen items are missing, including all Korumas (7 drums) and sugar (2 bags) ordered, 2 boxes of ammunition & some of my collecting supplies. Will collecting supplies were consigned in error to thisima, instead of Wima, & I thought that if they had been put off there they would turn up at Tudest within a week or two. Today's news is disturbing. There is no knowing where our missing cargo might be. Rex has ammunition & I have collecting supplies that will last perhaps another three weeks. We don't fully have enough Korumas or sugar to last that long. Korumas is essential for drying botanical specimens.

Sunday, Sept. 2. It sharp shower at 6 AM and the weather pattern for the day. Morning about half rainy; afternoon overcast, with a few sprinkles.

Ran a double shift with my one drying oven yesterday, which kept me awake to near midnight. This AM I still had all of yesterday's gathering unprepared, so stayed in camp. Sent the boys out for awhile & they brought in some new things, notably a fine climbing fern Medinilla (photographed), a Genus with leaves much eaten

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by insects (apparently when the leaves are very young & without chlorophyll), a Marantaceae with big white flowers & bright blue fruits, & a Peperomia with white flowers. The flowers of this Peperomia are small & the species looks like that of minima.

Rus is here jacked last night, for nothing. Nothing in 140 traps & 25 snails. One Phaeoglossus noted. Tuboga brought in three Peperomias, cut from a tree.

The one on our last tin of Co. As I am the only tea-drinker now in camp, I told the cooks to make less Co than when Tienet is here. He reduced the amount of water in the pot & put in the same amount of Co, making a brew undrinkably strong. Most of our actions are just gestures to the natives. They see no reason or ^{meaning} ~~in~~ what we do.

Monday April 3. Beautiful fine sparkling day with strong SE wind dying down late in afternoon. No rain in the 24 hours.

I had a disappointing morning down the creek which, with its main branches, drains the enclosed valley under Mt. Rie. The rest of camp. Tienet reported a big stream "like the LERADONA on Moomanday." I found a creek not half as big, deep, & gurgly, with a bottom of slippery rock. I brought sterile for plants. However, on its banks I collected a slender palm, common there. Including a Calamagrostis. This makes 3 palms collected on the island. I have seen few more, all sterile; a big Crucifera, a Zinnia-like undergrowth species, Banyan, & two spp. of Calamagrostis. Also collected saprophytic Terrestrial. First boys out in afternoon while I prepared plants a hand. They followed up Tienet's camp creek beyond the water fall where I stayed a few days ago, & collected several things new, including a big-leafed Marantaceae I had not seen before.

Nothing in traps & snails last night; a Calamagrostis & a 3rd Crucifera jacked by Rus; one Phaeoglossus noted.

Saw my first snake for the day by forest area, a slender black which Tuboga later collected. This morning he brought in a very large brown midventer snake, the biggest seen on the trip. Two species of snakes collected here.

WIDE WORLD
© 1960
WORLD

Tuesday
~~Thursday~~ Apr. 4: Clear down followed by a day of high overcast driving from the SE. It spritzed of rain in mid-afternoon, another about 7:30 PM.

My last collecting day in this camp. Climbed the leading spur towards Rio to nearly as far as old TIMI TIMABETA village site. Only 9 numbers collected, the most important probably being a small sample Schizaea (second sp. for the locality). Also collected a common Ulyxia - a canopy liana with very warty dark stem. Am running a night shift with the plant dryer to cope with a big lot of material on hand.

No mammals got by traps, snares, (oi net) (2), or Res jacking last night. This evening Res is unwell and only Luk-Luk is jacking.

King the cook, about the worst hunter in the world, has done little else for two or three days but hunt pigeons (big blues). Got one bird yesterday and one the day before. Nothing today is we ate bully beef stew for dinner, plus some sort of tree leaf that King gathered in the forest.

Wed. Apr. 5: A very strong wind sprang up in the early hours of the morning. Another day of high overcast, no sun. Light rain 3 PM - 6, heavier after that.

Finishing up on plant drying (there will be material still only partly dried to carry to the coast), & packing gear & collections. I have for the camp 208 numbers including 27 mammals & reptiles, 347 sets of herbarium specimens. Not a bad gathering considering the poor flora of these unbroken rain forests. Of course if second growth conditions would have meant many more plant species.

The camp has been poor indeed for mammals. About 150 traps out have yielded not a single specimen. I have never before seen trapping grids that (ed. Results) from jacking have been indifferent. Only 31 specimens of the following mammals have been taken at the camp: Pitaeus, Platypus hypomelanus, Shatanayae orientalis, Phaenocitrus, Setonix.

The stock take in mammals, but it is more attention being paid to herps. Totals 192 frogs, 5 snakes, 6 lizards (skinks). The deep forest environment is not favorable for reptiles.

In insects, only a few specimens of butterflies & a few spp. of Coleoptera were taken. Light trap material fairly rich in beetles, only a few mites. But most are down a fine filter mesh smacked to the ground at night by funnel.

WIDE VIEW

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STATION

We have, apparently, a great surplus of carriers for the morning. Some are here in camp, others in a shelter down on the creek. Reported to be here are 16 from MADAMA & 21 from PAMELA on the south coast, and 17 from Joe Landing. It is 5:30 as I write and there is no word from Lionel. When we were visited on August 24 by three men of HUIA village, south coast, Lionel said something to them about getting south coast men for our return carry to Joe Landing. There could have been no definite arrangement because no man of authority was here from Hui & on August 29, when the Joe Landing councillor came to camp with mails, Lionel spoke to him about carriers for tomorrow. He nice mess; 47 men when we need 30 at most. It is still raining steadily & the people will be hard put to find shelter under our two flaps, the cook house, & the small leaf shelter down on the creek. Joe Landing people say that Lionel has not returned from Nimoa.

Thursday Sept. 6: Transport for today looked like a doubtful proposition when heavy rain began at 12:30 last night and continued to 4:30. There were showers after that in the mountains, but not heavy enough for me to use the raincoat I carried all the way to Joe Landing in my hand.

Resolved the surplus carrier difficulty by presenting all spares (27) with a stick of tobacco xxx. Left camp at 7:45 with 26 $\frac{1}{2}$ loads, arrived at Joe Landing at 11:55. I did a little collecting and made some photos on the way. An easy walk. I am on my feet as long every morning.

Found at Joe Landing that Lionel has arranged for Bill Callanan of Modewa Bay to take us to Rambuso tomorrow; price 20 pounds, which is reasonable. Lionel is at Nimoa and will return with Callanan. All stores seemed in order in care of VC Bom in the resthouse. Pinned specimens that Bus left were quite dry and could be packed this afternoon. Plant I left in drying papers were also good and dry.

Feel glad that the Sudest mountain work is over. Mt. Rattlesnake (Riu) always looked so remote from New York.

Aug

Thursday Oct. 11: A very wet day. Heavy showers from before daylight through afternoon.

Left Abolai with Hugh Osborne on the "WAEI-WAEI" at 3 PM. and arrived TINSU 5:40, just before dusk. Took the inside passage. Calm water except in one place, probably opposite a break in the reef, and mostly very shallow. Intercalated patches. Touched bottom a few times. Good small wharf of best timber at Sinju. Good rest house among coconuts and mangoes on the beach, oval in shape, with sawn timber floor, and fan-palm roof. Then met at the wharf by Brother Cantwell of the Catholic mission (Father Carle was at Abolai to meet the "Muniara"), who invited us to dinner. Excellent meal, nicely served. Had table napkins for the first time in a European house in the Torresades. Father Carle & Bro. Cantwell live in a thatched 3-roomed house with board floor. Three sisters apparently have similar quarters. A convent of permanent construction is now being built. The mission was established, I think, in 1947.

Did some sorting of cargo after dinner. Very heavy rain while we ate. Hugh departed for the next day east along the coast. He would not have had enough water to get away from Sinju at low tide. The "Waei-waei" needs a good time for the trip between Abolai & Sinju inside the reef.

Friday Oct. 12: A threatening ~~rain~~ dawn. But as carriers were waiting, decided to leave for the mountain. The usual delays while the carriers assembled - some from Sinju, some from East Point, some employees of the mission. Got away with 34 loads at 7:25. Traversed a mangrove thicket behind the rest house, then began to climb through a small coconut plantation of the Coloureds (Spatheglossa flowering among the palms). Primary (also secondary) forest immediately above the plantation. Soon a new garden of good size, being planted mainly to taro, and unfenced. Mostly second growth. Then to DAMISEMI hamlet at about 600 ft. & overlooking the Carina reef and Heron Island. Barley steep slopes to the point.

Rested 15 minutes at Dambeni (35 minutes from Sinju) then began a long, gradual ascent through fine tall forest. At round about 1000 ft. passed 2-3 old village sites with coconut & betelnut palms and ~~some~~ run-out bananas. Good

Glenn...
Union Skin

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government road showing evidence of long use. Found several small streams, running murky from rain this morning. At 9:15 rode from a point where a saddle in the central mountain ridge could be seen several hundred feet above us. Some deep rock crevices here from which Lionel collected Diphtheridites on his survey trip. Heavy rain kept us there till 9:45.

Beyond this rest place a little, after crossing a fair sized stream, the track divided, the regular route to Ubbale going right, an old, little-used path going to the left. Followed the latter. This soon split again & there was confusion and indecision among our people as to which branch to take. The right hand one was followed and it soon ran out to nothing. Made our way back to the other branch and after a long fairly stiff climb, ~~reached~~ reached the saddle on the mountain at 10:50. Evidence of a frequent cloud blanket some 200-300 ft. from the crest. On top, Lionel had partly opened up a camp site. The ridge was narrow, & rough with rocks, but decided to camp here rather than at another possible ~~site~~ site about 500 ft. lower down, in tall, gloomy forest. Tent was back to the carriers and Ben, who were waiting at the alternative site, & we had a fly umbrella ripped before more heavy rain began to fall.

During the afternoon the clouds lifted for a time and we had views of Taa (Ubbale) rd. on a bearing of 112°, & of the summit of Mt. Romal rising about half a mile away and 1500-500 ft. above us on a bearing of 25°. The summit a sharp peak of very limited scope - like Mt. Rio or Taden. From camp the main ridge curves SW and W, rises only a couple of hundred feet, and appears to broaden. Our best collecting for plants will probably be in that direction.

Our carriers were a pleasant, willing lot. They fell to with knives & axes they carried to open up views from camp. Few of them had been here before. We gave them a feed of rice after their 6p payoff, & they departed about 3 o'clock. Some of them quite tall men for this part of the world. One, a councillor from East Point, & perhaps of chiefly blood, was pale skinned, short, with Wanda that head straight, peroxidized hair, and very prominently protruding bullocks. A friendly, intelligent man.

Eric Osborne and his family, about 30 years ago, camped where we are now. His clearing is marked by tall tree ferns, & an illegible name cut in the bark of a tree. One older

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native told us that a government man named Jamison once camped here, & that a "good" track, now overgrown, leads to the summit.

The mountain villages on our route were abandoned by government (we doubt if ANGAU) orders during the war, we were informed. The people moved down to Sinju, but they still use their old garden grounds.

Monday Oct. 13: Was kept awake much of the night by condensed mist dripping on my tent from a tree overhead. Light showers began toward daylight, lasted to mid-morning. Ridge's pack then clear most of time to mid-afternoon. At other times mist, driving on a strong wind from about east over the saddle.

Collected a few plants about camp while my boys put in a work table and storage shelves. Palm trunks and lying material (*Calamus* & *Hedyotis*) available in plenty.

Other boys doing the regular jobs of rigging camp - work and storage facilities, tables, etc.

Rus unwearily tied on a slipping pole in camp. Yesterday, fell & bent his back - not very badly. He spent today lying down. Woke out this evening by his boys.

Tuesday Oct. 14: Very heavy rain at daylight, followed by a dark, misty, heavy, showery day. Bad for field work.

Collected a few plants at camp, then followed the track toward Abolali. Track went along the side of the ridge, losing altitude steadily. Forest tall (ca. 70-80 ft) then & much undergrowth. Conditions wet; visibility bad. Found and collected with a few ripe red fruits, two species of nutmeg palms with feather leaves. An apocynaceous canopy tree with very fragrant big white flowers was especially good.

The old story of nothing in traps. Lionel and Kim, jacking last night, shot three civets, a brown *Melomys*, and a *Micropterus*, besides picking up an amethystine python 7 ft. long & a big brown tree frog.

Camp rigging, which because of the opposed position & rough rocky ground, has been a bigger job than usual.

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was completed today.

Went half dozen Jimbu men & boys paid us a visit bringing 10 eggs (bought for 2 sticks tobacco) & 6 papayas. No rain down below, they said. They did not stay more than an hour in our mist and rain.

Monday Oct. 15 Very heavy rain from about 11 AM to midnight. Completely misty day with occasional light showers. One of the worst spells of weather I have experienced. This is the 5th day of it. The forest is saturated & dripping. Wind (a cloud drift) from NE today.

The weather kept me in camp to mid morning, after which I made for the peak. Followed the narrow ridge crest by a track cut by the mammal boys, then cut beyond that to the foot of a rock face ca. 200 ft. high on the north side of the peak. Could go no further on the precipitous slope. The rock face overhanging, & being on the lee side, gave dry conditions. A fine white Flora grew high on the rocks & out of rock. On trees near the rock face were one plant each of the purple tubular Gonolobium of Mt. Patinama on Stormanby (an orchid present on the mountain of all the islands we have visited) & a pale violet Boea. Never have I seen a tropical mountain so poor in orchids (only 3 spp. collected so far) and ferns. The Rosell (here as a whole) is the poorest yet, but I am collecting plants quite new to me.

Again nothing in traps. Rain spoiled jacking last night & only two Meosglossus were shot. In nearly three weeks on Rosell all mammals but one rat have come from the guns. Now it develops that we are running short of ammunition, batteries & bait. We can make rat bait from supplies on hand. Batteries can be bought in Tamarai when we reach there about the end of November - or perhaps from a trade store. Ammunition is a different matter. No shot smaller than three is available in Tamarai. Will have to order from Australia. We came out with an ample supply of cartridges. It has been squandered on a breast of pigeon for the table, without my knowing that a shortage was developing.

Maiti came by native messenger from Aboli. The "Muniani" arrived yesterday after being missing for some days (with radio out of commission). Bark reported by me, and tobacco by Komet, did not arrive. Komet left for Aboli after lunch to inquire into matters - also, I suspect, to

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got some good oil. This was forgotten in the packing, so I don't
know anything about it.

Thursday Oct. 16: No rain last night. Less mist today, few
showers, & some sun in afternoon. Wind from
ca. NW. This afternoon we could hear the breakers on the reef
off East Point, a sound quite drowned by wind rustling the
leaves.

Botanized south along the crest of the range, cutting
back for an hour past the end of the jacking trail
without coming to the "No. 1" road to Abolite. Low
forest, slanted to a scrub on some narrow crests, showing
no variation in composition.

No mammals in traps. Mist spoiled jacking last night
by the boys. A small Hippoboscids caught in a bat net.
This is the first insectivorous bat we have caught in a net.

Hugh Osborne came up to see us, traveling from
Abolite in three hours. After lunch he went to the top
of Mt. Rossel, guided by some natives who came up
from Sijje with fresh food. Found there a wine
bottle with the rotted remains of a net in it, left on the
summit about 30 years ago by Eric Osborne. Climbed
difficult in two places.

Lionel returned, alone, from Abolite about 3:30.
Three natives from Sijje brought a nice lot of
sweet potatoes, papaws, pineapples, & a few limes, tomatoes,
greens, & peas for which I paid 12 sticks.

Wed. Oct. 17: The first day & night here without rain. Not
much mist, either, until 1:30 afternoon.

Botanized to and past the waterless gully in the valley
to the west of camp. Nothing worth special remark except
a big Calyptranthes, the third palm found with ripe or
near ripe fruits at this camp & the fourth on Rossel.
This expedition has been poor for palms. There were
few specimens on the other islands of the Torresades, & up to
this time I have not been able to collect any ripe nuts
for the Fairchild Tropical Garden. This afternoon I have
boys cleaning seeds of two species.

The usual story on traps. Russ & Hugh went jacking
last night for no results; Kim shot a cuscus. A
Macroglomus taken in the bat net. Various kinds of

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bait being tried tonight - cheese, cuscus meat, sweet potato.

Ron Gibson arrived at noon from Jimba, having carried timber for the mission in the "Wai-wai." Hugh left for Jimba about 2 P.M., to take the boat back to Ubalali. After lunch, Ron & Lionel went to the top of the mountain. Lionel spoiled the view & no photos were taken.

Thursday Oct. 15: Another 24 hours without rain. Wind to ca. 9 A.M.; after that clear except for a broken overcast low enough to cut off the top of the mountain at times.

Spent half the morning working on specimens on hand (worked a shift on the dryer last night; things not drying well). Then, with Ron Gibson, my two (oldest) boys & a Marshall Islander of Ron's, went to the summit of the mountain. Did the climb of 400-500 ft. in 60 minutes. Some very steep places, one a rock face, being dangerous. I used a rope on this. We were fortunate in having good views from the top, especially of Ubalali anchorage to the Jimba coast, and East Point. Could just catch a glimpse of Tangga Bay on the west end of the island. Left my name in a bottle which Ron & Lionel ~~had~~ placed there yesterday (in a 1 lb. formalin bottle tied to a tree with monel wire). ~~Had~~

Mt. Romi, 2750 ft., does not seem as high, when one is on top of it, as Mt. Riu on Tulest, 2000 feet lower. It is even more limited in area than Riu & its flora is poorer. Top covered with a dense, rather messy scrub 10-15 ft. high in which a Metrosideros (?) (shrub) & a Tournefortia were the principal elements.

My idea of bait changing brought no results from traps. But there were good results from two boys sent out last night with a Coleman lamp to hunt for frogs. Lionel, out jacking, shot a cuscus. A small Hipposideros shot in camp by Riu.

Ron returned to Ubalali after lunch.

I have decided to close this not very profitable camp on Saturday. Two days ago, when a Jimba councillor was in camp with fresh food, I asked for 33 carriers to come up the mountain Saturday morning.

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Friday Oct. 19: All last night the moon & stars shone brightly, our first clear night & first glimpse of the stars at this camp. Some rain of occasional day as yesterday. A slight sprinkle in afternoon.

Botanized along the track as far as Tichon's camp site towards Uluabai. Collected a few good things including a fourth species of palm for the camp, & in Tichon's old clearing, a small tree Quintinia. Have on hand more material than I can do & tonight will work another night shift with the crew.

Traps yielded a half-grown Blackish Brown female Phalanger; first mammal trapped here (Kin the cook got it); bait was a bit of sweet potato. Another Hippoboscids in the lot, also a Macroglossus. Et cetera that last night by hand.

The Gorbunov sent up, for mailing, is a tree in camp, a heavy bit of sheet lead with the history of the camp site stamped on it. The Gorbunov was here first in 1808. See attached rubbing.

Saturday Oct. 20: A threatening morning with enough rain to wet the tents and flys before we could get them down at the mountain camp. I left at half past eight, to collect on the way. More than enough carriers were met traveling up the steps soon after I started down. We had 51 loads. The transport arrived at Jinju before noon.

Nothing in traps last night. Four cuscus shot by Tinker with four shells.

Had very good collecting on the track. My best day on the island. Interesting things included a red-flowered Gesneriaceae vine (like Bignoniaceae) which I found on Fergusson and Normanby, and a fine big Marattia with tripinnate leaves. Saw oaks in the forest at about 200 meters.

Father Twomey of Nimoa, on a visit to Jinju, called at the resthouse to talk with us. Short, stocky man of open countenance, who started the mission at Nimoa in 1947.

Sunday Oct. 21: Heavy rain from the NE last night measured 64 points at the mission. A sultry day, it seemed to me, despite a good NE breeze off the sea.

Spent nearly all day preparing yesterday's plant collection. The rest house is big enough for Rus and I to work in. It already stinks of cuscus.

Rus and Lionel went jacking last night but were driven in early by the rain. One Rattus ruber in traps.

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Monday

Tuesday Oct. 22: Rain again before dawn. At 5:30 a great black cloud lay over the sea to the NE. Light rain through much of the morning. Thunder with this.

Botanized eastwards along the flat sandy island on which Jinju is situated, then across a mangrove flat on a bridge mainly of sawn baulks of timber to garden lands on Wabu Creek (this seems to be the big creek which heads near our mountain camp). From the gardens -bananas, taro, coconuts mainly) I went up the slopes into primary forest. Some fine tall trees, which have been cut into somewhat by the Osbornes and the Mission. Little in flower or fruit in the forest, but I collected a fine big canopy tree which seems to be a Turraea.

In conversation with the owner of the garden, I found that he had worked for Burns Philp at Madang for a year as engine boy. His brother, who lived with him and owned neighboring land planted to coconuts, had worked four years as a houseboy in a Madang hotel. Other boys of the area have worked in Rabaul, Lae and Port Moresby. This man has a good house for which he had paid the builder 26 pounds. Nearby was a small house in which the second of his babies had been born. Such a house is not used after the birth of the child. Was questioned as to what we did with our specimens. I described the Museum as something like a big school to which all people could come to see things from all over the world. In reply to my statement that in some parts we were thought to be practicing black magic, I was told that "some people do not know God."

Nothing in traps but five Macroglossus caught in a net and several bats shot by Lionel and Rus (Pteropus conspicillatus, Dobsonia, Nyctimene).

Tubuga and Sipoma were sent across to Abaleti for some onions from our stock there. Left at 7:15 and returned at six in the evening. A remarkably fast trip. The journey is supposed to take about five hours each way.

Ron Osborne here this evening on a trading trip. He bought a couple of bags of copra and some trochus shell, and sold a considerable quantity of manufactured goods. The excitement of our presence has decreased the regular rather high output of copra by this community. At least we have spent about 20 pounds here.

Started buying artifacts for the Museum. Have three kinds of shell money and a limestone so far. Native food is coming in well. We will try to lay in a stock to take to Woodlerk, where population is only a few hundreds and garden produce is likely to be scarce.

Since about the middle of last week there have been big doings at the Mission. Monsigneur Doyle, head of this mission, has been here for confirmations. About 120 people have been put through. (Since the mission started something over 600 have been baptized on the island; about half the population). The monsigneur, with Fathers Twomey and Earle, left about 6 this morning for Nimoa in the "St. Patrick." Tues.

Tues. Wed. October 23: Rain much of the time from about 8:30 to 10 this am, spoiling my field work. Weather from the NE, over the sea.

Went west through the mission and over the coastal slopes. Very tall, gloomy forest in which there were a few fallen flowers on the ground, and parrots feeding out of sight overhead, but I could collect very little through inability to see.

Another Pteropus and a cuscus shot by Rus and Lionel; three Macroglossus in the net; two R. ruber trapped by a hospital boy at the mission. Nothing in our traps. I find that only the regular museum bait is being used.

1944-1945

1946-1947

1948-1949

1950-1951

1952-1953

1954-1955

1956-1957

1958-1959

1960-1961

1962-1963

1964-1965

1966-1967

1968-1969

Had Brother Crantwell to dinner. Plain bushman from Dalby, Queensland. Worked on farms, then for an undertaker. Has two brothers in the Church as lay brethren and another brother about to be ordained as a priest.

Wed. October 24: Very heavy rain from daylight (5 oclock) to after six in the morning; 162 points at the mission. More rain during the morning interrupted my field work. Afternoon fine and hot.

Went up the mountain trail as far as a big new garden at approximately 80 m. Collected 19 numbers in second growths and primary forest (have 48 for three days at the camp). A curious pinnate substage tree with red cauliflorous flowers. Freak condition of thousands of short pendent (c. 1 m) adventitious leafy shoots from a big canopy tree whose branches had been entirely stripped off by falling trees when the garden was cleared. These shoots in flower.

The hospital boy caught two more ruber in his two traps. A Pteropus conspicillatus shot by Ixamak Rus. Bait changed to sweet potato and coconut today.

We have daily contact with the mission. Rus drops in there often. Today Lionel fixed their broken-down lighting plant (small Lister diesel with injector trouble). "The mission small launch "Bambino" was sent around to Abaleti with an injector for cleaning. Brought back for us a tin of flour.

Thursday Oct. 25: A rainless 24 hours. Today mostly with little cloud, and bright and hot. The evenings are warmer here I notice, than at Abaleti. And every morning close to dawn I wake and have to get half out from under my blanket. Sandflies are here, but in numbers too small to be troublesome. A few usually appear, and bite, toward sundown.

Went up Wabu Creek about a mile, to where it narrowed and the hills began to close in. Tall forest broken by a new small garden clearing or two, and second growths (Piptadenia novoguineensis plentiful) where gardens had been. Sago here and there on wet patches of ground. Taro the principal crop planted in the gardens. A fair number of bananas, some cassava, and odd plants of corn, hibiscus, etc. Have not seen any yams in this area. This seems to be a general season for burning off and planting the gardens. Trees usually clear felled. Sometimes the bigger trees are left standing, killed by fire, in the old Rossel fashion.

Again nothing in departmental traps. The hospital boy brought in three more ruber from his two traps. Rus has not as yet inquired as to what the boy uses for bait. Three bats shot last night by Lionel: Pteropus conspicillatus, Nyctimene, and Macroglossus.

Brother Crantwell came after dinner to play native songs for our Gosiagos on the accordion and mouth organ. Only one of the boys came out to listen. Something went wrong. It might be the local feeling of Protestants versus Catholics and suspicion of the brother's motives. Crantwell once got as far as an audition in a national harmonica contest in Australia.

Friday Oct. 26: Weather returned to strong SE. Rain threatened much of day. A thunderstorm in the evening. Day cooler than lately.

Botanized up the mountain road again to about 80-100 m. Got only 11 numbers but there were mainly good trees of the primary forest. An Erythroxylon, the first on the trip, among them.

The usual report on traps, two rats from the hospital traps. Kim, out shooting last night, got a cuscus and five Macroglossus. Previous to this, only one Macro-

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glossus was shot - by Lionel. They are difficult on the wing. Kim waited for them to settle in a fruiting tree.

To dinner with Brother Crantwell this evening. We provided the blue pigeons for the meal. The mission has an excellent cook, but our Kim knows more about doing up pigeons. A game of scrabble filled in the evening. The game seems popular in this country.

Sat. Oct. 27: A considerable amount of rain in early morning, before dawn. More or less showery day. Weather from about east.

Botanized, for very little, the hills on the east north side of the valley of Wabu Creek. Have seldom seen so little flowering and fruiting in a forest. This is an off season for plants. The flora is poorer than that of any of the other islands we have worked on.

A mail in this afternoon by the mission boat "Morning Star" brought a new Leica camera from the National Geographic. The focusing gear failed long ago in the camera I brought out with me. Tomorrow will be out last day in Jinju and I will probably spend it largely in trying to get close-up pictures.

The same results, or lack of results, from expedition trap lines. The hospital boy brought in only one ruber this morning (he has been using coconut as bait). Yesterday, however, the Methodist teacher, not to be outdone, asked for two traps to set in his house in the village. This morning he brought in 13 ruber and two Mis! He did not say how long he sat up to make the catch.

Lionel this morning, with a local guide, investigated a bat cave we have long known about. Really a crack among jumbled rocks, about 20 minutes up Wabu Creek. Crack narrow and hard to get into. Caught 5 small Hipposideros of the species we already have for the island.

Called on Father Earl in the evening (he returned from Mimeo on the Morning Star). One thing discussed was the early history of the Catholic Mission in these parts. Nothing seems to be known about the end of the Marist mission which went to Woodlark about 1846-50. Recently, however, a priest visited the reputed site of the mission and, digging, unearthed a chalice which is now in Sydney. The inference was that the priest who probably buried it must have been in a bad way. There is a legend on Rossel that, long ago, a white man came to the island who made the sign of the cross. He had only a shovel, with which he leveled ground for a house. Finally he was eaten.

Sunday Oct. 28: Some small showers, and much good bright sunshine. Several severe black squalls from the east.

Stayed in camp to attend to collections and correspondence and sent my boys into the field, mainly to collect the gum tree (Vatica) of Rossel. This is the same species that occurs on Sudest. It is very abundant on river flats and the lower ridges at Abaleti, on the south side of the island. Here it is anything but common, and, as everywhere else where I have seen it, the leaves, especially of the older trees, are very badly eaten by insects.

Botanical collections for this camp number only 93, a poor total for seven days of field work. Herbarium sheets number 620. As previously noted, this is an off season for flowering and fruiting, and the flora of the island is poor. It is especially poor in ferns and orchids, groups which generally are well represented

6/25/64

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MADE IN U.S.A.

in the Papuan region.

Another big batch of rats (seven) from the Methodist teacher. Nothing in other traps. Two cuscus and several bats shot last night by Kim and Tinker. Ras jacked for nothing, in early evening. The boys did not start out until after 8:50.

Following an announcement in church this morning by Father Earle, who has done us more than one good turn, a regular flood of artifacts came in for sale during the day. I bought shell money, pearlshell scrapers and spoons, hair combs, a nosebone, and three types of baskets. Perhaps the Methodists will be in in the morning. There is a strict nonconformist Sunday. Thought today that I would be able to get pictures of village activities, but there weren't any. There was even any cooking of food. The hamlet of Jinju appears to be straight Methodist.

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THE UNION SKIN

Another method of tests (never) from the laboratory because of the time. The process and several days and several weeks. The process of making, in fact, is a very slow process.

Following an investigation of the process, it was found that the process of making the skin is a very slow process. The process of making the skin is a very slow process. The process of making the skin is a very slow process.

Embroid

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Sunday Dec. 2 Left Tamarai on "Kedeluma" at 9:30 AM and arrived DAWA DAWA about one o'clock. My first visit to Milne Bay. Had on board, going to pick up school children who had come in by Tassari for the Christmas holidays, Ray Taylor, his half-caste wife (knew English), & young Gordon English. Peter Shekoyi advanced letter notwithstanding, there was no red carpet out for me at Dawa Dawa. The big house turned out to be the property of the village councillor, named ADELAI. Place about 30 x 20 ft. The frame largely of Douglas fir and Australian hardwood, the roof of galvanized iron. Adelai refused to vacate his house, saying he had no other. But the house has two rooms at each end, separated by a wide breezeway, & I have rented two-thirds of it for 30/- a week. A high price, but worth it to me. My only alternative was to go cruising around the bay in search of another locality.

Situated on a narrow gravel spit on the east side of the mouth of the Dawa Dawa River (ca. 200-yard stream), the village is a mere hamlet of five houses. The gray gravel has been taken to Tamarai in quantity for making concrete. On west side of river is small coconut plantation owned by Pussling.

Was met by a young Tassal Govt. Councillor (), who had been sent by MAHURU PARK. Mr. P. himself turned up in about an hour. Impoverished middle-aged man in singlet, shorts & sandals, affecting a clean-shaven mustache & a carved ebony walking stick.

W. B. ALDEN

W. B. ALDEN

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W. B. ALDEN

Monday Dec 3 SE weather with a bout in evening of heavy rain in middle of afternoon. Rain in the day none in the bay & little rain here later in some places.

Reminded myself of camp rigging in AM & after lunch went about two miles up the river in a direction along bank to see by planting (Bingby of former process). Botanical results were disappointing, though the vegetation was affected by the rain. The hills a mountain rise steeply from the river for the most part in the covering of their lower slopes is practically all second growth rain forest & occupied garden planted chiefly to food. Some small sweet potatoes and the staples here. Some small logs seen. Malheur Mahto who visited me again Tuesday, says small logs is made higher up the river in times of scarcity in the garden. He also informed me that the logs for 9000 former sawmill were cut high up the river (12 miles, though my price in formation was 2 or 3 miles). A very strong of small raft of logs, and single logs is tied up now in the mouth of the river. Said to be owned by the Catholic Mission at SEBIDA? to have been there a long time. Am paying a penalty for not checking to the best detail a job done by Malheur. My typewriter was left behind when ~~my~~ my cargo was unloaded from the ~~Katib~~ KADILUMA yesterday.

Tuesday Dec 4 Strong SE wind pouring a small rain on the steep weather side of the gravel spit. We saw a throat of rain. Boaniguet said a mile or two along the coast. Turned into the mountain of a small running creek. Practically a (bank for plants)

18. A disagreeable morning. I expected to get at least a good assortment of second growth species. Was in primary forest up the stream. Even wet heavily shaded tracks of water falls were practically bare of the ferns which I expected to find. Collected not a single plant in the primary forest. Very steep rocky slopes.

Saw where some sized logs ~~had~~ had been cut on steep slopes, & brought down to the coast. Some natives now working at this in the area I visited this morning.

Wed. Dec. 5. Weather more S to SW. Heavy showers from 3 to 4 p.m.

From 7 to 4:30 on an excursion up the river by dinghy. Went as far as the dinghy could be taken, a distance of 5-6 miles by the windings of the river, putting the boat up rapids & rowing on deep reaches. Still there for a miserable total of nine plant numbers. Reached one island at the fourth bend. Just above my farthest point was a big gravelly island with a patch of small trees growing on it. Below the island a big sluggish tributary came in on the left. Saw five hamlets, all on the right bank & four of them below the fourth bend. One house visible in the forest of the left bank just above my far point. All along the river most of the slopes & all the little flats had been cultivated. Very little primary forest except on the very steep slopes & the coast of the higher hills. At my far point I was behind the coastal range, which rises to 3000 feet. The one hill visible upstream was only 1000-1500 ft high.

The river is better past the fourth bend, a distance of about 2 miles, but the water is quite fresh far below that point. At the mouth it is only half salty.

For some distance above the fourth bend, millions of small speckled fish, about 1 1/2 in. long, were swimming upstream. I take it to be the annual visitation of *Uchisobala*. They were too fast for me when I tried to catch some in a butterfly net. But the boys caught a pound or so in an old basket they found on the river bank.

GEORGE W. BROWN

1877

Up river was as poor for insects as for plants.
Saw very few butterflies, only ^{two} species of dragonflies
& lots of damselflies. Caught only one dragonfly (a fine
big *Symphyla*) & one damselfly.

This village is infested by many underdeveloped,
weak mongrel dogs. They snarl & snarl at all
hours of day and night. Last night the cook, having
ground my two pairs of boots, left them on the
detached kitchen. It was a thoroughly stupid thing to do.
This morning I was shown the results. Two or three
of the leather soles eaten off. Tops of the full water
proofing inserts chewed away. I'm lucky the
damage was not worse.

Near my far point up the river today on the right
bank, some Sawa Sawa men were clearing forest
for the planting of 50-100 experimental coffee trees.
Bourcinia ADELEI was there. They call coffee "COFF."

Thursday Dec. 6: Weather continues about southwest. Rainless 24 hours but for a
slight shower about 1 pm.

My missing typewriter and some mail were brought from Samarai today by Maluru
Mark of Gwaiili.

A letter from Gus, dated yesterday, says they ~~are~~ have been delayed by the non-
appearance of Lamley's boat and will be sailing on the "Chinampa" at twelve tonight.
In four days on the mainland they had the remarkably good haul of 13 species, 39
individuals (*Dactylopsax*, *Pseudocheirus*, *Nyctimene albiventer*, *Rousettus*, a very
big *Pteropus*, *Uromys*, *Pogonomys*, *Scoonycterus*, *Pipistrellus*, *Phalanger orientalis*,
Melomys, *Petaurus*, large *Dobsonia*). Trapping must have been very poor, if traps
were set (only the *Melomys* is likely to have been trapped).

I have spent the day in camp. Have decided to vacate this camp at the first
opportunity, and today I expected a boat to go by en route to the head of the bay
to pick up Garseair passengers, etc, due early tomorrow. Perhaps the flight has
been delayed a day. This morning I called my boys into council in the hope that
from one of them I could get information on a fruitful ^{locality} ~~locality~~ locality with
"good bush" suitable for botanizing. No information was forthcoming. I lean
towards the south (Susu) coast, not far from Samarai. A large area there, between
Lyte Bay and Samarai (and Milne Bay, for that matter) has not been touched for
plants except for a few numbers collected in the 1870s by the missionary James
Chalmers.

Friday Dec. 7: Sultry day of high thin overcast. No wind at all. Not a glimpse
of the sun.

Was packed up before nine and waited all day for a boat to turn up, going in
the direction of Samarai. None came. Did not hear the sound of the plane at the
head of the Bay, so conclude that it did not arrive from Port Moresby. The tender

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Geography of China

Chengde

Thursday Jan. 3. My last day in Samarai 186
 developed into a last-hour rush.
 Was notified at 11:15 that the "Hera" would leave
 at noon, instead of one o'clock. Had therefore to
 say hurried good-byes.

We left Samarai at 17:05 and arrived at
 GABAGABUNA, Milne Bay about 4 o'clock. Good
 smooth passage; hot still day.

The battered truck of a sawmiller named
 Brodie was at the wharf and gave us a lift
 to the trading post of Hans Jensen, about 2 miles
 inland. Johnstone's native wife, Dyne, with us
 on her way back to Port Moresby, when they have
 a home.

Hans a big gray clean-shaven old Dane of
 70 years. Married to a native woman (a
 kindly little old woman) & has two sons.
 Has been in Papua over 40 years & in Milne
 Bay over 30. Was 17 years an overseer at
 Levan Gili Gili Plantation, the last 9 years a
 head overseer. Refused vaccination in World War
 II & ended in charge of the Milne Bay
 refugees at MODENA. A good host. Found
 old man with an interest in astronomy.

Friday Jan. 4. Samarai has its passengers
 entirely at its mercy, & uses them
 accordingly. ~~Two~~ Today, we were told in
 Samarai, there would be two planes. One would
 go on to the Trobriands. The second, a special
 carrying General Ken Baldwin to Milne Bay,
 would arrive first, at 8 AM, & take us to Port
 Moresby. The first plane came soon after 9:30
 I went on to the Trobriands; the second about 1:40,
 ten minutes after the other came back from
 the Trobriands & had our baggage on board. We
 were transferred to the second plane, left at
 1:55 & set down at Jackson Wharves, Port
 Moresby, at 3:50. A good flight at 3000-3500
 feet.

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Clear copy on 11/11/11

The Mt. Mowbray area has had very good rain & in consequence the savanna hills, which are dry & brown through most of the year, are brightly green. Have never seen this dry area so bright & lush.

His work is in progress on a third very long runway, at the airport. It is in a very advanced stage of completion.

Am staying at the Papua Hotel, F1-12-8 a day inclusive tariff for a single room. Have an air booking by Qantas for Tue on Tuesday.

Talked with a Californian oil driller who arrived today en route for the Mowbray River. He is in the employ of an American contracting company which drills wells for APC (Australian Petroleum Company). Says American drillers put down a hole in 6 months that Australians or English would take 18 months to complete. He is on a two-year contract. Has also drilled in Arabia.

Sat. Jan. 5 Very hot, no rain. Mosquitoes were rather troublesome in the hotel dining room last night. After a respite of some years, the heavy black squalls called GURU are said to be a feature of this wet season.

Saturday is a full holiday for Government offices in Port Moresby (and Lae) so could not get any business done today. Bought for £5-2-6 (ca. \$11) a pair of ~~these~~ shoes which would have cost \$20 in New York, or more. Called on W. E. (Arthur) Davis, manager Bank of New South Wales, who took me to the Papuan Club. Saw there Frank & Berne Ryan of B.P.S., Brits. of Steamships Trading Co., Alan de Green, E. H. James, etc. All spoke of the earlier expeditions, especially of the Tuba & her crew. An A.P.C. man said his company is spending £4 1/2 million on oil prospecting this financial year.

Spoke with the State Animal Ecologist (first a herpetologist) who has been in the west lately. Says

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© Clearon/Chin Skin
MADE IN U.S.A.

he saw the B. T. ... River ... western tributary of the Fly, which he was pretty sure was red water. His animals & very red. ... country. ... going back to collect a series of ... the Museum a male & female if he can get enough material. ... from as far east in Papua as Rigo. The Papuan ... is a new subspecies with red stripe down the back, recently described by Allen.

Jan 6 Breezy day from SW. Not so hot. Heavy thunder clouds inland. No rain here.

Had Dr. Dorothy Shaw (of St. Paul's Pathologist) for lunch at the hotel. ... visited the Public Library. Then sat on the beach with Smith of ... Fry & his wife a small son. Smith came from the ... Coast some 8 months ago. First ... to look for a suitable area of land on which to establish a cocoa plantation for his company. This project was dropped for reasons I do not know. Smith now going to Rabaul, where he will be stationed to look after ... Fry interests. New Guinea cocoa is of good quality but has a "sharp" flavor. It is being used in Australia to blend with ... cocoa. Dr. HEAVIN'S Experiment Station visitors are given a piece of chocolate made from ... & one from New Guinea ... and asked which they prefer. Most people so far have chosen the local flavor. The principal market in Australia is for milk chocolate.

Monday Jan 7 More a hot concert, cooler day with light rain about 5 PM in evening.

18 big day of official visits. ... Started with my air bookings with Qantas. They generously ... my wife my ... from ... to ... back. Had a party ... on the ...

19 ... (got ... head ... first called on ... Dept to see ... Mc ... who was out.

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They visited Dorothy Shaw at Dept. of Agriculture and after that Girardin Dwyer, who was about to leave his office for a Land Board meeting. Found from him, however, that a permit had been issued for the export of our zoological collections. Saw a copy of the telegram (one to me, one to Collector of Customs, Samarai) & discovered that as a condition of export we were required to give the types to the PNG Administration.

Went then to Dept. of Native Affairs, where I saw Jemi Julius, Govt. Anthropologist, then Director Roberts. The department had cleared our "antiquities" for export. Julius told me over morning tea that during the past year about 16 anthropologists had visited PNG on special projects; his own work is practically confined to trouble areas. Roberts very candid; spoke mainly of the appearance of government posts in the territories. I think there are over 30 now.

Finished the morning with a talk with Claude Champion, who is now acting head of Field Office, who drove me back to the hotel for lunch.

After lunch, posted the postmarks for which I have been awaiting an export permit — which is no longer necessary for such things. Picked up my revised air ticket. Then to Evan Champion's (Commissioner of Titles, a something) office in town. There a talk to Howard, when I first saw Mr. H. Very candid & talkative on forestry matters, especially the reforestation of Strandia cunninghamii & B. Blenkie in the Bulolo timber exploitation area. They know, from early work in Queensland, how to regenerate cunninghamii. Blenkie is still a problem. The former is the better timber, the latter, a nice commercial timber, has been most publicised on the market.

After Mr. H. visited Dwyer, very talkative. Finally we got around to discussing the export permit his department had issued. The demand for types was a mistake, of course. I do not trust

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Blair County, Ohio
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Blair County, Ohio

Bryce, a Henderson, his A 2, who is now away in
Gene.

Had an interview with Administrator G. M.
Holland at 3:30. He seemed in a hurry & did not
have much to say. Then called on Steve Horgan, who
is now Acting Asst. Administrator. Ended the day with
a visit to the club with Claude Champion.

All my talk in the hotel today is a Dutchman
named Boer, a building contractor at Hollandia, on his
way back from Australia. Says there are now about
2000 white people at Hollandia. Until recently the only
buildings were U.S. war time barracks & Quonset's. Now
some 500 new places are being put up. The Dutch feel
increasing in west New Guinea. They don't trust the U.S.
to make an ownership decision favorable to them. Many
Europeans have been killed in New Guinea since the
war. The settlement scheme a failure. Too many of
the half castes "belong to good families" & will not do
hard work. No business being done with Indonesians,
except perhaps in air services, which the Indonesians
pled with the Dutch to carry on. Most building
materials come from Singapore. Cheap than Aus-
tralian. Local New Guinea supply of timber is inadequate.

From Dean Champion I learn that the PNG
government still maintains a line of 5 or 6 patrol
posts along the Dutch border.

During the morning I visited the Administration museum
with Julius, Judge Stigwood, & Miss Jones (trans. secretary).
A committee was formed & the museum started at least
from. Collection of about 2000 artifacts housed in the old
Governor's house & office building. Simple but effective
arrangement. Some very good things, mainly (the most
conspicuous) from the Sepik, Manus, & Rabaul coast.

Tuesday Jan. 8. Tafi Port Manoby at 7:50 AM by Qantas
Dch "New Guinea Trade" & arrived base
9:10. Small flight but could see little of the country,
& none of the Main Range, for cloud.

Was met by John Womersley, who took me to the

Faint, illegible handwriting covering the page, possibly bleed-through from the reverse side. The text is mirrored and difficult to decipher.

Hotel Cecil (Mrs. Stewart, an old woman who knew C. Wood, Rogers, etc). Later in the morning visited the Forest Herbarium, & John showed me through the Botanic Gardens. Did not see much of the Herbarium. There is room enough for the 15,000 sheets (in Hermit boxes), but the walls, & under wide eaves, come only half way from floor to roof, & rain can blow in. The good ventilation probably saves the place. Two women & 2 natives work in the Herbarium. Botanic Gardens are on a forest reserve 60 (65?) acres in area (another adjoining, 40 acres are available under the town planning scheme). High old river banks & ground about 50-80 ft. low, but well drained, are reforested. There is a permanent small stream, a little 2000 swamp, & a strip of original tall old rain forest under the break of the forest. The year is kept record & some planning has been done. A big glass house contains a good new collection of native (& a few hybrid) orchids, begonias, ferns, etc. There are great possibilities in the garden. A new, reinforced concrete herbarium & office building should be put up this year.

In afternoon John drove me some miles along the Bulalo road to see the country. Following us on his own utility was R. W. (Ben) Paine, an entomologist here for 18 months for the Fijian Government on investigation of the banana scale moth. He found larvae of one of his moths on Heliconia. Returning to Tavo, we called in at the cocoa plantation of Healy, formerly of the Dept. of Forests, who has 40 acres under crop, & proposes to plant 120 acres. The cocoa is doing well. It new crop in which chocolate manufacturers in Australia are showing great interest. The Robinsons have a plantation not far from Healy's. Healy is the last of the old pioneer family of that name in Victoria. The last of the family (a woman) is involved in the cocoa.

In evening, John & Mary, Norman by, had Paine & I to dinner in a Chinese restaurant (not too good). Paine also showed some good Kadschona slides he has made in New Guinea.

141 176

Wed. Jan 9. Day spent on a visit to the Highlands with John Womersley on the D.C. 9 which the government chartered to do a round of the outstations every Wednesday. Left base at 7:50 & landed at Garoka some 40-50 minutes later. Saw Webster of Pennington met me at the airport. Garoka is the center of an area in which, scattered over many miles & covered by several air streams, coffee is being planted by Europeans. Country is almost entirely deforested except for a few trees along riverbanks & in ravines. Heavy native population living in bee-hive houses. I understand that the older plantations are just about coming into full bearing & this is a critical time for the young industry. (It is interesting to report the soil unsuitable).

From Garoka we flew to MINDU, passing over the Chimba valley & going station on the way. Mindu is in the great Waga Valley, at ca. 5500 ft. Natives live in small huts & both men & women wear a sort of sporran of matted string. Some cocoa plantings. (Probably more so for European settlement in the Waga than in the Garoka area). Got the loan of a Land Rover from the A.D.C. at Mindu & drove across the valley to MANDUKE, a distance of about 15 miles, by fairly good dry-weather road. At Manduke, the govt. & the Edward Holstom have a joint project in sheep raising. Have ca. 1000 head of Romney Marsh breed in charge of Frank Pumble-Smith of the Dept. of Agriculture. Various flukes have been troublesome. Intense rotation of grazing, in small paddocks, is now practiced to control the flukes. The original object was to introduce sheep into this grassy valley as an extension scheme for the natives, but the natives have shown no interest.

A wildlife section of Manduke is in charge of ^{Frank} Thomas Magn, well known collector of birds & mammals. This is a private project of Holstom. Magn has been in charge for 3 years. Is thoroughly wrapped up in his charges. The property has been well developed with big cages, ponds, & plantings for shelter, shade & ornament. Many spp. of birds of paradise are doing well in captivity. There are Sabadomus ducks, S. M. of B. drake, Tama pigeons, etc.

Gregory O'Neil

Part were some very fine limestone country in the Chimbu area. The Naghi Valley appears to be in a stage of reconnection, which leaves long narrow flat topped ridges on which the natives have their gardens & oblong houses. At Gucpa the first natives seen at the airport were water who were named in some cases flannel things. At things there was a good sprinkling in native specimens much decorated about the head & wearing crescent necklets of pearlshell, & belts hung with jangling pieces of pearlshell. A well built, vigorous people in the Naghi & very friendly. They have never given any serious trouble. It is big population in the mountain ~~between~~ ^{near} Chimbu. Farm to have moved there recently, for the forest has been only partly cleared. Tall trees grow in the gardens, as on the upper slopes of the Balim Valley. Saw no planted Sandanum in the valleys.

The sun was hot on the Highlands, but in the shade it was cool. Country has a temperate, & very fertile appearance. 18th Nov day extreme maximum temperature is about 85° minimum 45°.

Thursday Jan 10. To Bulolo with John's car small town - some than an official band. Rove with a good native driver. There is a dry spell in the inland wet season (this is the dry season at base) & the road was in good condition. Winding gravel road. We did the 59 miles in 10 minutes under 3 hours, which was considered good going. Road rises to about 3500 ft. when it enters the valley (Taka River?) basin. This largely grassy. Much Taka rice cattle grows plentifully & vegetables in the upper part of the valley & apparently is prospering. Lower part of valley very unstable. Much slumping & slipping on the slopes. Very steep slopes, remarkable ~~land~~ ^{along} river.

Stayed at Jan Lodge Hotel. Really a superior hotel with 9 or 10 room cottages, each room with bath, & a big building with dining room, lounge, etc. beautifully furnished in teakwood from the local mill; red cedar, etc. Walnut (Dracaenoides), blue cedar, Populus on etc. No good trade exhibits in Ambros.

After lunch we visited the plywood mill (Treddon, manager). Big, very modern new plant not as yet working to full capacity. Saw the process, from the log yard to peeling, gluing, drying, trimming, patching, & packaging. Was most intrigued by the gantry handling



THE NATIONAL BUREAU OF INVESTIGATION

WASHINGTON, D. C.

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of the logs, is in the peeling of the bark & the peeling of the wood of the beautifully straight logs. Many operations are controlled by electric eyes & other electronic devices. There is no packaging of plywood for the local market. For the Australian market it is done up, about 10-12 sheets together in paper. For export to San Francisco, it is packed in plywood crates. All Stracoma Klinkii being manufactured at present time.

After the mill we drove up the slopes to the logging area. Stopped at a log paddock & saw no actual handling of logs. The lower slopes of the mountains carry extensive stands of S. Klinkii. Uncommon in size, but few young trees small enough to be called saplings. The understory of mixed rain forest species. Average height of Klinkii is about 230 ft., average girth about 10 ft. Govt. collects a royalty of 2/- per 100 super feet (in Queensland it is 25/- per S. Cunninghamii) & undertakes reforestation. Exploitation is on a sustained yield basis on a rotation of 70 years. Fifty years considered enough to produce good mill logs. Practically all planting thus far has been Cunninghamii, which germinates & establishes well. Klinkii gives trouble in establishment, though it germinates fairly well & can be satisfactorily transferred to better.

Visited the Forest Station & talked with Regional Forester David Ben, who did not impress me as being nearly 10 ft. caliber. Said he had about 1 1/4 million young trees ready to go out in March. Suggested to plant 1000 acres this operational year. Ben says that Klinkii occurs on schist & sedimentary rocks, never, so far as he knows, on granite. The soil of the Klinkii forest is pale grey, deep, & contains much rotten rock. Growth is not good on the sandstones, which are too dry for part of the year. Also on schists, which produce a clayey soil.

Top personnel in forest & mill are Australians, trained in Canada. About 500 men employed. Only two dredges, of original eight, now in operation & they will close down in about another year. The timber operations will employ as many men as the gold did.

Friday Jan 11. Returned to Toe in the morning. John had to meet G.A.R. Stanley, retired geologist of A.P.C., who will represent P.M.C. Scientific

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THE UNIVERSITY OF CHICAGO

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Society at the ANZAS conference to be held soon in New Zealand.

I have a booking to Cairns by Qantas plane leaving at 7 AM tomorrow. Report of a severe cyclone over the Coral Sea, which has delayed some of today's air traffic.

The Women's Club gave a cocktail party for Paine, Stanley, & myself. Present were Miall (DC), Howland (DO), etc. Paine & I stayed for dinner & afterwards saw Kodakoman, which John made this year on Mt. Wilhelms. It is a selection from various sources which Stanley will take to Christchurch next week.

John spent 6 days at a lake at c. 11,500 ft. on Mt. Wilhelms. Gilliard established the camp. I built a shed near there. Tramped on Hegetrupf circuit at over 8000 ft. About a hour's walk to the lake camp. The pilot, Showers, who accompanied John but did not quite reach the summit, is sure that a Beaver plane could land on the lake with 1500-1600 lb. of loading. Could lift about same weight in take off (about full load). A fair sized lake 500 ft. above the camp lake. It pond at over 18000 ft. & enough woody growth for firewood there.

Stanley an unconventional type, round of figure, with a short clipped grey beard. Raised money for his N.Z. conference trip largely by collecting & selling empty bottles. Brought with him from Port Moresby a native boy about 4 years old. Is staying with a Malay named named Torrey, who, with his wife, was invited in by the Women's Club after cocktails.

Sat. Jan. 12. Left Tas by Qantas at 7:10, from the 8:15. Dorothy Shaw & Father Crutwell at the airport to meet me. Crutwell a big, youngish man very interested in botany. Showed me a selection of the his water-colors of mostly orchids. Vivid colors of a life-like quality. Has collected about 700 numbers for her. Now has to collect & duplicate for Tas, & doesn't like it very much.

Left Moresby 8:15 & arrived Cairns 12:30. Good weather but for low clouds on the Queensland coast & rain in Cairns. The cyclone, which passed out to sea somewhere down the coast, is influencing the weather at Cairns.

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[Faint handwritten word, possibly "Bulbous"]

[Faint handwritten text at the bottom of the page, possibly "Bulbous Onion Skin"]

When staying at the Hotel, he recommended
by the Hotel. Not as good as Rieder Hotel used to be.

To manage his apartment. He is a woman, as
guest of Robert & Rose Bates. Birthday dinner for him & Rose.
Son Howard of Gaines, who was there with his wife, son Bob
& a student friend of Bob. Bob is a medical student.

Bates informs me that the giant lead Proso manure,
which has infested coastal north Queensland for years, is now
definitely on the decrease in size & number.

Sunday Jan 13: Another very wet day. Floods are widespread
in NE Queensland.

George Brooks, who was out and collecting yesterday,
picked me up at the hotel about 10 AM & took me to his
hospital home at Edge Hill. (George & his two small sons
were there). Spent the morning looking at George's fine
collection of beetles. Mostly local species, but a few numbers got
by exchange from other parts of Australia & countries abroad.
The beetles are in separate cases. Critical numbers have been
worked out by specialists. The emphasis in George's collecting
has been on groups in which specialists could give him
identifications. Has collected several new species, which have
been named by other workers. Returned to the hotel at 4 PM.

Monday Jan 14: Some showers but weather much
improved.

Went first to TAA to arrange an air booking for
Perth on Wednesday. TAA handle Qantas affairs in
Perth. But it does not belong to the international air
organisation & my return ticket by Qantas to Perth
was only good as a credit against the TAA fare of £20.
Had to pay an additional £12/12/6. A very curious
state of affairs for a big company, owned by the
Australian Government, as is Qantas.

Talked on Tom Tupa's, Eban's, & I, Dept. of
Agriculture & Stock. Cordial, but did not seem over-
joyed at seeing me. Then got in touch with Tom
(T.F.) Webb, manager. Tawana & Hansen, Electrical Co.,
with George Smith & Frank Moody, we had some beers
before lunch. Went out to hills place in afternoon. To
the Hotel (Tom & Amy) for a very good dinner.
Home-grown Australian coffee used. Home-grown
paper on the table.

I understand that there has been wrangling &
political wire pulling in the formerly good N.G. Natural-
ists Club, & that the club is no longer very active. Alf
Red is now president. Tomorrow, the club's museum

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STANFORD UNIVERSITY

DEPARTMENT OF

was passed into the hands of Bob Hunter, who calls himself Tropical Tours, it is part of a display which tourists pay to see.

Hugh Siker, formerly of Newcastle, called to see me. Now has a carrying business in Cairns & is much interested in growing orchids. His brother Joe, now a qualified mining engineer, manages a uranium mine in West Queensland. He has lately put out the worlds biggest specimen of pitchblende, weighing over 2000 lb.

Tuesday Jan. 12. Fairly fine day & rather hot. Temperatures here are not nearly as oppressive as in Sarawak, but Morley & Iae.

Was interviewed at the hotel by two young men from the Cairns radio station & made a recording on our work in New Guinea, its extension over the year, & its meaning.

Another example of nice equipment going wrong in the tropics is my New Geographic job-light camera. Had to leave it open by a lock with the morning. Could not unlock it when going through Customs on Saturday.

Had Alf Reed to lunch. He has been president of the Nat. Club for the past 8 years. He says some will leave the club, I doubt if they contribute much brilliance to the club. Club still publishes its small journal & has over 100 members, mainly non-resident, who pay only 10/- a year.

Talked to Dr. H. Flecker, radiologist, founder of the Naturalists Club & now 72 years old. He has kept a lot in the past 9 years. Says the club's museum are ruined, George Strother & some Stephens being the leading wreckers.

Then visited the "Tropical Attractions" show of Bob Hunter in Harbour Road buildings on the water front. One long room contains Hunter's own amateurish collection of insects, etc. Another houses the "North Queensland Museum" collection, mainly ethnological. Fair number of mammals, a few from the AMNH, mostly local specimens collected by Gordon Stephens & badly prepared. Alfred in charge keeps the rooms & cases clean, but the inside of many of Hunter's poorly labelled cases are in a bad mess with dust. Administration charge 2/- try other tourists than during my visit.

Extracts

Clearcopy Onion Skin

MALDEN

Wed. Jan 16. Left Cairns 8:10 AM on TAA Townsville
 " William Gump" landed Townsville
 9:15 left then 9:55. The extra heavy load (the plane
 was 40) obliged us to make an unscheduled landing
 at Rocklampton for fuel (11:55-12:25). Arrived
 New Farm Airport, Brisbane, at 2:05 PM. A good
 smooth flight but visibility poor. Stream landed from
 Cairns is near Brisbane.

Staying with sister Edna Henderson at the
 suburb of Hawthorne.

Thursday Jan 17. Most of day spent in the city. Have
 made a reservation for flight to
 Sydney the night of Jan. 27, and a 10 Jan
 franchise on Jan 30. Applied for income tax
 clearance.

Visited office of Government Botanist & then
 talked (partly over a sandwich lunch in the back
 room) with Evelyn Tourist (sic) and Stanley
 Blake. An appropriation has been made for
 building this year a brick & reinforced concrete
 annex to house the library & type specimens. A
 fire proof wall will separate this from the old wooden
 building. The herbarium is being gradually reorganized
 families & genera in systematic order. Specimens alphabet-
 ical, except in large genera. Bentham & Hooker system
 being adhered to. About 25,000 specimens mounted last
 year. Total number of herbarium sheets nearing 500,000.
 Library of about 1000 books. Some rare books, including
 the only copy of *Flora Brasiliensis* in Australia.
 Now five young graduates in herbarium & library,
 in addition to Tourist, Blake, & Lindray Smith.
 An effort being made to fill gaps in periodicals, etc.
 published during the war.

Friday Jan 18. Picked up my income tax clearance
 & had my plane reservations confirmed.

Visited the Queensland Museum & talked with
 Director Frazer Mack (mostly) & Gene Vernon. Did
 not see any exhibits. Museum nearly began showing
 Wall Lisney pictures, which can be used as special

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Course for free educational purposes. Show put on in a picky - eat atmosphere in a banquet room which holds 150 people. No woman in staff (Moak, Wood (young geologist), Vernon & another preparator). Moak as self confident as man, & not broader. Very critical of George Fisher (big work on Neotropical - Australian rats, published ca. 1950). Says that a new subspecies described from Cape York does not even belong in the species to which it was attributed. Moak, for comparison, has been borrowing Thomas types from the British Museum.

Learned from Wood that Stan Blake now has a doctorate, granted on his published work.

Trip to Ipswich, Townsville & Dalby

18th Left Brisbane by Greyhound bus 1.45 in afternoon & arrived Ipswich in about an hour. Stayed overnight with brother Eric in suburb of Roseview.

19th Went on to Townsville by Greyhound, about 1 1/2 hours. Visited the Andersons until evening when I left for Dalby by rail motor, arriving at 8.50 PM. Queensland rail motors are noisy, but would not be bad to travel that distance if they did not make so many stops. Dalby is 50 miles from Townsville, 150 from Brisbane. Stayed with brother Alan.

20th Drove with Alan & his family to the very fertile Jimtown Plain, there was the station across the Condamine River to the property of cousin Percy Littleton. Town is fine state after a season of ample rains. Large scale farming of wheat, grain sorghum (milo), canary seed, sunflower seed, etc. Also dairying & sheep raising, principally for the fat lamb trade. Great prosperity. The man on the land has done well since World War II.

21st Returned to Townsville by rail motor to stay with the Andersons. Town prosperous & growing fast. Population now ca. 65,000. Second largest town in Queensland.

22nd Returned to Brisbane by Greyhound.

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PHYSICS DEPARTMENT

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Esther

Jan. 23. Travelled to Palmview by train to visit
sister Boris. Terrible journey of three hours.
My first class carriage in poor state of repair.
The main toilet door would not open. The Queensland
Railways are in a run-down condition.

In afternoon drove about 20 miles north along
the Bruce Highway through mostly cleared native farming
country. pineapple, bananas (chiefly "toddy fingers"),
mangoes, dairying. Went through the town of
Nambour, Jandine, Emerald & Cooroy. Highway
good for the most part, but in poor repair in
some parts, & in some sections too narrow.

Thursday Jan. 24. Back to Brisbane by car (79
miles by road). Did some
shopping in town & in evening had dinner with the
Walkers at Hotel.

Fri. Jan. 25. Visited the Queensland Herbarium &
talked with Ewart & Blake. Blake
downy, Telenia for Stena melaniana; should be
finished by June. He & Lindsay Smith are then to
work on my 1945 Cape York collection. About
October Smith, B.T.L.P.O. chemist Ken Webb, & CSIRO
plant collector Jones (mainly drug research) are
to examine an area about the head of the Escape
River where, in 1948, I observed from the air what
appeared to be a large area of rain forest.
Ewart hopes that the Arnold Herbarium will agree
to publishing a complete enumeration of my Cape
York plants. Very desirable from a plant-geograph-
ical point of view, as my collection is the only
important, properly recorded collection ever made in
the area.

Visited W.D. Francis & Mrs. T.D. White at
Mangrove Point. Then said good bye to the Queens-
land Museum. Mark had just finished a weekly
lecture course in natural history to an annual class
of 30 school children.

Tried to buy knitted woollen goods for gifts
back home, but shops are not opened until March.

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Tue. Jan. 26. Visited the E. R. Humphreys at Camp Hill.

Sunday Jan. 27: Left Brisbane Eagle Tavern Hotel at 10 PM. by Qantas & arrived Sydney 12.25 AM. Some rough air, though sky clear. Staying at Manly Hotel (£3.00 per day).

Monday Jan. 28: Australia Day & a slow holiday. Shops all closed. Could not buy a magazine to read. Did not sleep last night. A couple of anaesthetics given before lunch gave me diarrhoea. Walked the streets in the morning. It was raining in the air. Other women wearing long black coats of some light weight material. Very few men & women in shorts. Different from Brisbane.

Visited the Australian Museum (Govt. of New South Wales) in afternoon. (10 fashion plates seen examined with faded & dusty animals, etc. Only a few habitat groups - then crude & mostly small. The mammals & bird collection are being reorganized according to a notice. Some halls closed off. Attendance fairly good. A lot of New Australian, smelling of garlic & liquor & wine. A telephone summons to appear at Qantas office next day. Found that some smart individual made a mistake when I reported in & finalized my booking for Jan. 31 instead of Wednesday's. Was called tomorrow's flight instead of Wednesday's. Was called in for confirmation of this booking. The error has been rectified.

Kept in to the saloon bar of the hotel to see the TV show (introduced in Australia about last November). It's slow an imitation of news on, Napoleonic U.S. showmanship, as they can achieve. I've heard reports that TV is not going well in Australia's sales of sets far under expectation. No wonder.

Tuesday Jan. 29: Tried again (at David Jones) to get costume needles. Failed. Got open then to the Botanic Gardens. Talked with Anderson (director), Mann (wife), then Findlay (ferris), Johnston. Anderson a man who "has not aged well" according to Alan Blake; has done an admirable job with few years. Mann in early middle age; slender man with small mustache; rather nervous manner but easy & friendly to talk to; was the Botanic Gardens, Garden, like an

On back

Clearcopy Onion Skin

MADE IN U.S.A.

an agricultural officer with the ...
Wheat, Guinea, growing vegetable at ...
The ...
Fudal perhaps in 186 ...
a ...
not ...
In perhaps an ...

Is doing a revision of Casuarina ...
part - for ...
two genera, largely on the position of the ...
as far as I can make out.

Herbarium of ca. 600,000 sheets is overcrowded; all
material in white cardboard boxes. Types of a set of
Banks & Toland specimens ...
of the collection is kept in the director's room.

Went to the ...
on ...
Whitby (fisher), who could not be found. ...
The AMZUS conference in New Zealand; Joyce Vickery of
the Botanic Gardens also at the conference.

Saw the ...
Australian Atomic Energy Commission in ...
showed use of isotope & equipment. Was fascinated by
the capabilities of a "master-slave manipulator"
with which a needle could be picked up & ...
threaded. Good attendance of all ages, ranging from
housewife to scientist, according to the receptionist.

Wed Jan 30. Left ...
at 19,000 ft. ...
6:50 (9:50 then time). Distance 1978 miles. ...
Makamba ...

Left ...
7:45 AM (11:45 then time) ...
line during night. It is Jan 30 in ...
& Immigration ...
& lunch at Edgewater - Ref 9861 provided by ...
Visited ...
deduced to his uncle, Prof. ...
& is trying to raise money for a planetarium. Left ...

Thursday Jan 31. A good ...
at San Francisco at 5:15 AM
(7:15 then time). ...
more a day or two ago). ...

ARCHBOLD EXPEDITIONS
OF
THE AMERICAN MUSEUM OF NATURAL HISTORY

5TH ARCHBOLD EXPEDITION TO NEW GUINEA
L. J. BRASS, BOTANIST & LEADER
R. F. PETERSON, ZOOLOGIST



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ARROLD'S EXPEDITION

landed. Hoping the day at Kobi. The 7 men in boats
 did not have a very good sleep last night & could have
 had a fairly good sleep last night & could have
 gone on today. The traveling toward camp. Plenty of
 on the way to go. The snow was very
 The snow was very
 not sleep. More snow

Friday Feb 1. Left San Francisco by TWA at 9:35

AM. The stop flight is followed
 by a stop at New York with amount of 3:15 PM (3:15
 time). Small flight at 7:30 AM. Most of the time
 was used for fuel to leave New York in a
 snow storm. Landed when we landed that in the
 storm a Wallingford DC68 plane had crashed
 on Rasmus Island, a (in take off) with the loss of one
 or two.

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