Richard Archbold's Journal

Second Archbold Expedition to New Guinea

23 January to 26 June 1936
January 23, 1936

This was supposed to have been the day that we sailed but it was such a windy day that they could not load the aeroplane so we had to wait till tomorrow. It was a terribly cold day as well and we nearly froze. All the water pipes were frozen which added to the discomfort. I got down to the boat about noon or a little before to find Adrian and Joe waiting for me. I received a number of sailing presents about the most useful was a gold pencil from Gug and Allie who also came down to see me off. Carl Chader and Johnny Lukas from O. J.'s and Jack Gatty from Fairchild made up the rostrum of well wishers. I stayed aboard for the night as I could see no reason for going back to the apartment.

January 24, 1936

It was not quite as cold as yesterday and there was not as much wind, they got the plane on board about nine and we sailed at 11:55. I had forgotten to bring the typewriter, so Rinald made a wild dash and just made it as they were taking in the last rope and handed it up the sides. Just before dropping the pilot we passed a Standard Oil tanker coming in literally plastered with ice. The weather did not change much though it became cloudy in the evening.

January 25, 1936

We got into Newport News some time around ten and I went ashore with the captain and the agent of the ship and went to the customs. After lunch I copied the authorization for our Rapanian flight for the benefit of the customs and tried to get in touch with Gough. I also took a short walk up to town and bought a magazine and a sewing palm. About six I met the agent and I took a chance of finding Gough at home by the time that I got there which was the case. I had a very nice supper with him. After supper, after supper he went off to get Russel and his wife whom had flown down in a beechcraft with Chader so we all had a pleasant evening.

January 26, 1936

We left Newport News a little after nine. Gough, Carl and Russel's wife came down to see us off. It was a dull grey day very cold though it was somewhat due to the humidity for it was warmer that in New York. Very little doing on board. I read most all the time. Toward evening it began to thaw and the snow to melt off the decks.

January 27, 1936

Another grey day though it was decidedly pleasant. Did little except read. Hooked up or rather helped hook up the H. R.O.

January 28, 1936

The early morning was cloudy but about nine thirty the sun came through and remained out all day though there were numerous black clouds hanging about all day. The temperature was just right though there was a very desired smell of the tropic about. In the morning I showed the Captain and the first officer the plane and got some clothes out of my trunk also the rope for making the nets; at which job I spent the morning afternoon. In the morning right after breakfast there was fire and boat drill. I did not see a single bird to-day though I was not looking very hard.

January 29, 1936

The day has been cloudy all day with occasional breaks also one to two drops of rain. I saw the first flying fish this morning and we went through the Crooked passage about ten this morning. We have seen only two other freight boats. I spent most of the morning making rope nets until my hands commenced to
January 31, 1936

About eight I saw a flock of birds feeding to windward and a little later I saw the first school of flying fish, this was the only one seen all day though I did see one or two individuals. The day was fine and warm enough so that one felt better with ones coat off. I gave up the idea of making rope nets for dropping and decided to use slings as one needed about half the rope and it did not take so long to make, I figured 45 ft. as about the right length for a sling. There were very few birds seen all day except for the flock at eight and one individual that hung over the ship for a time I saw none.

February 1, 1936

I did not write notes on the 31's so I missed. We arrived off the northern entrance about seven in the morning and went through the first or Gatun locks about nine thirty or ten o'clock. There was a nice breeze blowing and we had no rain. We had a pleasant voyage and got to Balboa a little before six. I waited for a while for Mr. Vauhn to show up but as he didn't the Captain and myself went to the Union Club, which was all right, that is the food etc., but not terribly exciting at least the Captain thought so at least it was cool and there crowd was decent in fact we were one of the few without mess jackets. Mr. Vauhn was on the Gatun locks unfortunately on the opposite side and we could only hold a long distance conversation, I understood him to say that he would see us on the other side (meaning Balboa).

February 2, 1936

To-day has been the warmest day of the trip though it has not been really hot. We left Balboa about seven and have been making a good time with a fair current and wind, the morning run averaged 13.9 almost 14 knots. We saw the last of the mainland of North America this afternoon. I sent a radio to the Museum asking them to send the radio license for the ship to me care of the Vacuum Oil Co. Brisbane. I saw occasional terns all day and one Frigate bird. Russ said he saw a number of pelicans as we were going out of the harbour.

February 3, 1936

There was less breeze than on any previous day so that it seemed hotter than usual. One or two birds were seen this morning and a number of flying fish all day but there has been very little doing all day. I felt like doing something but could not make up my mind just what to do, so I did nothing. I got a slight burn in the sun nothing serious.

February 4, 1936

There was not much change in temperature, though a slight increase in cloudiness also slightly less wind and swell. We saw more life to-day than yesterday. Te only one Obst I could recognize was some Boobies and them I am not sure of which species. Several were standing on floating logs. I saw a school of five or six whales they had a short blow pointing forward. The second saw two others which he said had a blow pointing straight up. The deck hands spent the afternoon getting the parts for a swimming pool out of the fore-peak. I notice in reading that I have forgotten to put down the fact the I received a wireless for Don Upham and also the Explorers club wishing me good luck.
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<td>6:36 A.M.</td>
<td>Left Balboa, Draft 22' 08&quot; A. 26' 10&quot;</td>
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<td>Feb. 5</td>
<td>3:58 A.M.</td>
<td>Culpepper Is. S 24 E 6mi.</td>
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February 5, 1936
We passed Culpepper Island about three this morning though I id not see it. When I got up there were a great number of birds about. I could make out four species though most I could not fix identify. I will numberate them there was 1, a large bird resembling a petrel, I saw four or five together several time during the day flying a heigh 60-100 ft. They had white underparts; primaries and top of head black while the back and upper wing coverrets sooty. No. 2, resembled a tern a small bird as compared with 1, the tail was forked though this was not apparent at all times. It was dark or blackish above and white below with a white band on forehead or neck I could not make out which though I saw several flocks all day. The reamining 1 were boobies I think that one was the "Blue-faced" and the other was the Brown Boobie, these last were less numberous than the first two species. Our position at noon Lat. 1 07' N. Long 93 36'W. In the afternoon we saw several whales We did not come close enough to see them though we could see that they had a short spout pointing considerably forward. The day was warm with little seat. Run from noon to noon was 305 mi, yesterday's 514

February 6, 1936
There was very little of interest to day I spent most of it reading. I developed a film for Julstedt after supper. In the afternoon a moderate breze sprung up on the port beam which made it nice and cool. Chips finished making the swimming pool.

February 7, 1936
There is a nice breze on the beam. I awoke early and went in for a swim before breakfast and after breakfast we had fire and boat dirll. About ten we passed a school of dolphins I think they were Dolphimus they were brownish above and lighter below there must have been fort to fifty of them. Very little doing in the afternoon. I went in for another swim

February 9, 11, 1936
There has been very little to write about. It has been not too warm though yesterday when the wind shifted to astern it was slightly warmer than usual. I have decided to enter the ships position an a seperate sheet all at one ti e. I have seen very few birds about one each day and then not close enough to identify. There has been endless pounding, paint chipping. The swimming pool has been moderatly used and the water has seemed slightly cool about 72. F. I developed a film that I took at Hagerstown and on board also coming through the canal; it came out fairly good.

February 12 through 21, 1936
There has been nothing practically worth writing about during this time except possibly the scarcity of birds, I did not see more than about six and they were mostly boobies. To-day I saw the first Tropic-bird that I have seen on this voyage. The weather most of this time has been fair, though we have had an occasional shower and there has been a slight breeze so that it has not been excessively hot. Rogers and Juelstedt have been putting final touches on the ship and the radio.

February 23, 1936
We saw more birds to-day that on any-time since leaving Galapagos they were mostly Tropic birds. Flying in pairs and in beautiful full plumage there also seen a number of Boobies and one large petrel. I moved the radio (HRO) down to my cabin and had lots of fun playing with it I wro the list on the back of this page.
1875 Sydney
VK29P Sydney

1915 Regia
1899
1822 Turn Signals
338 Paris to W3

786K CLP Syndey

28 320 Bate 645 25 20

GSD London 74 9 GMT 150 B. MT

3 18 1 1

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20 17 14
340 Germany
245
350 England
637½ Germany
### April 1936

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February 23 - March 19

I have not written notes since we were on the Summerset and consequently I have forgotten a lot. We had fair weather all the way but toward the last when we were approaching the Australian coast. We arrived at the warf about ten in the morning and had a busy morning and afternoon getting our stuff off and transhiped to the Montoro which was due to have sailed that evening but she ran aground and we were charged with 12% General Average which is a nuisance and an expense as I had no insurance. Everyone in Brisbane was most helpful and they did everything that they could have to help us get the plane assembled and cleared consequently we are flying in a week. We had a fast trip from Brisbane to Cairns but the weather was abominable and we saw little except the actual coast. We made the trip in 7½ hr. We made a stab at continuing the next day but the weather was so bad that we had to turn back and wait for the next. The next day was fine except for a shower just North of Cooktown and we had a head wind most all the way to Daru where we found everything O.K. We spent several days here and went to Port Moresby on Sunday in two½ hr. We spent Monday and Tuesday in getting the ship and other gear through customs and ordering a few supplies. We brought Patrol officer Champion and Mr. Willis who is going to run transport for us. Mr. Champion is going to show us the country so that we ought not have any trouble finding our way. Also P.O. Healey is coming on the Chief tomorrow to go with us.
March 20, 1936

The Chief did not arrive today. We had a look at Oriomo Co. Buildings at D gwa and Murci. I hardly recognized the country and would have missed it entirely if it had not been for the buildings. After that I took a series of pictures from dogwa to the mouth of the fly to see if the camera was working all right. We had a go at Bramble Cay but could not find it though we did not try very hard. We returned and waited for the Chief which did not show up.

March 21, 1936

We did little all day. Juelstedt and Rogers spent most of their time working on the radio which has not been working. In the evening the Chief arrived of the 22nd. Bringing Mr. Healey and a few stores.

March 23, 1936

Today we started our survey flights and low clouds hindered most of it as well as getting stuck in getting off. It had to be absolutely low when we wanted to leave and consequently we got stuck when we were nearly off which kept us from leaving. Until seven thirty we landed at Lake Murray when we saw that the mountains were clouded in to see if they would lift but they didn't, so we shuved off again in an hour and a half and had a look at the junction of the Palmer and the Fly also the Palmer and the Black. As near as we can tell the highest we can land is the junction of the Palmer and the Surprise Creek. We returned to find that it was low water again so that we did not get gassed till nearly one this (24th) morning. Rogers sleeping aboard as the ship was dragging. Still the radio does not work properly, all day we could receive nothing although we were getting out as they heard everything that we said.

March 24, 1936

We got away at six thirty which was a little later than we had planned but as it was overcast we could not leave before. We climbed slowly till we got to 2,000 meters where we were flying just below the clouds. We were flying a course calculated to take us to Mt. Bulter but we made considerable drift to the East and consequently arrived at the mountains at the Gorge of the Strickland on the way we flew over some unexplored country and discovered several things; one a crater lake in a almost perfect crater also a waterfall. When we got to the mountains we found the tops of the highest in clouds as well as a lot of the lower ridges and valleys. Never the less we saw a lot and it was a very interesting flight. I can say little about the actual detail as I was doing the flying and consequently could not write very well. The part consisted of:- Mr. Champion a Patrol officer who had been over the country and who was most helpful pointing out landmarks and on thing and another. Besides Mr. Champion there was Dr. Rand, Mr. Tate, Mr. Bass, and Rogers and Myself. Besides looking at the mountains we had a look at the Palmer again and also we flew over to the Alice. We got back here at about one o'clock. I am sorry to say that my watch and as my spare is on the Viamaria is broken down. I do not have any spare shoes. I will get them on Thursday and in spite of the Viamaria being broken down I do not have any spare shoes. I will get them on Thursday and in spite of the Viamaria being broken down I do not have any spare shoes.
March 25, 1936

We were slightly late in leaving Daru. The weather when we left did not look at all promising in fact the rain became so heavy over Kiwai Island that I came down again to a lower altitude. We were flying low about 100 meters till we started up the Turama then we climbed very slowly till almost to the limbe stone where were climbed with additional power to 3,000 meters reaching this altitude as we turned to come back toward Mt. Leonard Murray from Lake (There is at present considerable doubt of the spelling of Lake Marguerita) during all these flights that we have made I was doing the flying and was consequently occupied with the course and consequently had little time to make notes and what I remember is of little value in comparison of Rand and the rest I am including the collected Notes of the rest.

March 26, 1936

We got a good start but the plat voltage was turned on by accident before the filament and we had to return after only 1/2 hr. to check over the transmitter. I did not think that it was worth while to make another start to-day.

March 27, 1936

We left for Port Moresby about eight thirty and had a lot of rain the first part 1/2 hrs. we stoped at Yule Island and saw Mr. Thompson who was just as chipper as ever. There was no News of Bill Adamson, except that they could not reach him and that he was fighting in the Kuni-mipa. We only stayed an hour at Yule Island before continuing on to Port. We found that the Veimauri had broken its crank shaft and had to return with our gear.

March, 28, 1936

Was spent in Port arranging for another boat and in ordering additional supplies. In the evening we saw a poor movie at least part I got fed up looking at it and left in the middle of the last picture.

March 29, 1936

We left port about nine or a little before. The Van Rees came in some time before six. We had a pleasant trip back to Daru. The ship seemed livelier than lately and we made our land fall only slightly to the North in spite of several shifts of wind. We got stuck coming up to the ramp which was more or less to be expected as the tide was better than half way out. There was little else of Importance done.

March 30, 1936

Little of Note Rogers was working on the ship on the spar that bent in taking off for Port.

March 31, 1936

Rogers finished the work on the ship which included a twenty hr. check on the motor, he reports that the plugs were carbonising badly. The house for Rogers was finished and the place is beginning to take on shape. We have had electric lights for the last night or two.

April 1, 1936

Ragers, Juelstedt, Tate and Mr. Beach left at seven for Wudoi and Dogwa. There was great excitement on the part of Rogers and Juelstedt whose first trip it was. They are after the D. C. plant and other suitable electric gear left by the Oriomo Oil Co. We got started building the house to house the Generators, Spar Motor and developing outfits. I ran the evening radio schedual with Port. and had everything that could hapen without anything being serious anyhow I got through and sent three messages and recieved two. One for Mr. Woodward and one for myself saying that they had sent everything except the Last Montoro cargo for which they claim there is no invoices actually I have handed in all the invoices and have paid duty on them. I am wire them tomorrow the 2nd.
Trip #1 Daru - Lake Murray — Black River - Palmer junction - Daru

Seats in plane: Rand (R), Champion (R) Brass (L) Tate (R front)

7.31 Left Daru Ship bearing 315 degr
8.03 S. bank Fly
8.08 Shifted bearing to 310 degr.
8.07 N. bank Fly. Wide silt bank covered low mangrove, cut by creeks. Rain forest inland (B)
8.06 Two old garden clearings. Savanna and some grass area in distance on right (R)
8.10 Swampland patches grassy and sago in rain forest. Some brownish Casuarina forest (B) Long house and small clearing (R)
8.10 Rain forest and mixed savanna (thin). Grass country several miles long and one mile wide. Standing water (R)
8.12 Open grass with regular tentacles of forest (B) Rain forest with irregular outline (B) rain forest
8.13 Grass swamps and rainforest containing rain forest islands (B)
8.15-14 Grass swamp nearly underneath. Still running along side swamp and lagoons two miles to east. Rest rain forest (R)
8.16 Open grass swamps of Aramea showing east (B) with river winding through the Rain forest back from river, and islands of it in swamps (B)
8.17 Lagoons, ponds and grass swamps, apparently a stream through them (R)
8.18 Same as last (R)
8.21 Low flat country with meandering stream with ox-bow bends, numerous lagoons, grass country and patches of forest (R)
8.20 Beautiful open lagoons, red along edges with Azolla (?) Everywhere below bends of muddy river (B) photos
8.22 Over stream (above). Apparently banks with natural levees, as they appear higher than surrounding country and carry lines of trees near water edge. Grass country behind them. Filled (?) cut-offs grassy with wooded edges (R) Note: this is the Aramea R. (C)
8.25 Dark carpet of forest with only occasional grass land (R right)
8.26 Parallel small meandering streams with much grass and forest (R)
8.28 Over ponds, grassy edges extending as fingers into forest (R) Over beautiful country of rain forest, open lagoons and grass and tea tree swamps (B) mostly rain forest (B)
8.29 Over small red stream. Country more wooded. Some ponds with red vegetation around edges. Heavy haze cuts down visibility (R)
8.32 Mtn Peak 358 degr (C) (see Rand sketch)
8.34 To left large stream with considerable grass (R) To right mostly wooded; one stream with little grass (R) Over big rain forest lagoons of Aramea west Top of forest every shade of green, here and there dead or leafless trees and some with brown or yellow foliage (B)
8.35 Low hills half right (T)
8.35 to 40 Over completely forest flat plain (R)
8.40 Still great forest for many miles (B) Aramea grass swamps showing away over to west (B) To right three spots of grass swamp in the forest (R)
8.41 Hill 34 degr.
8.45 To west few grassy swamp areas marking course over muddy river winding through rain forest (B)
8.44 Heavy forest, ridgy (C) Mountains 50 degr.
8.45 Changed bearing to 305 degr ship's compass
8.44 Winding stream with little swamp to left (R)
8.45 Over same stream, fifty yards wide, trending half right (R) Very brown-yellow in color. Very little grass swamp (R)
8.46 Aramea fifty yards wide (C) Flying altitude 824 meters (B) Clouds beneath
8.49 Ship 800 meters, coming to low fleecy cloud field below us. Dense cloud field 100 meters above prevents flying higher. Country all forested (R)
Trip # 1

8.50 Ahead and to right clouds below have closed completely, to the left scattered parts like fog at more or less regular spaces, allowing views of forest (R)

8.52 Fly river (?) just visible west over great stretch of forest. No openings in forest below. Obscure lines like faint watermarks in paper mark course of drainage streams in forest (B)

8.58 Commencement more grass swamps with creeks running nw to Strickland. Cloud field spreading from direction of mountains (B)

8.59 Strickland in view ahead; Lake Murray just in sight (R)

9.0 Changed course to strike Lake Murray. All flat. Completely wooded (R)

9.03 Crossed Strickland river. Grass swamp of some extent to left. Strickland roily water, islands and ox-bows.

9.04 In big bend of Strickland lagoons with trees th their edges, little or no grass swamp (R)

9.05 Oxbows and billabongs run about in such profusion that it is difficult to tell where the river flows, except for the dirty water of the Strickland and the clear water of the billabongs. In the forest conspicuous lines showing where the banks of the bends had been built up or cut-offs formed (R). The above are the banks of the inside of the bends.

9.07 Conspicuous red banks on Strickland several miles to southwest (B) Some open grass swamp country (R)

9.09 Over lower reaches Lake Murray and following a big outlet creek, dark, clear water flowing to Strickland. Whole country along Strickland incised by lagoons edged with grass (distant view) (B) Left much more open swamp (R)

9.13 Slight ridge (C)

9.14 Over edge Lake Murray (C) No lake really but a vast lagoon: a mixture of water and islets, islands, points, hooks and peninsulas. Country all forested. Margin along water only grass, bright green. In places trees growing into water, some at least tea tree formation (R) Great irregular lagoon of brown water miles across half filled with forested islands (B) Note: Clouds left behind about level with Strickland.

9.19 On water of Lake Murray. Half mile from village several houses on island anchored in 20 feet water (B) (Canoe, two men visited us)

10.37 Clear of water and in air. Bamboos and some tea trees observed on some islands. Bright pale green lines water lilies mark edges of shallows off islands. Islands margined with half submerged masses of aquatic grass (B)

10.45 End of lake reached (north) Heading north for Black River. (C) Good deal of sago in forest. Many trees in flower. Very soon after leaving lake forested ridgy country. (B) All forested, swamps or sago swamps (R)

10.47 Visibility better. See to horizon all around. Apparently entirely forested: tall slender palms. (R)

10.49 Small open grass swamp (R) On swampy grass patches in forest a low, white-flowering tree like a Leptospermum (B) Flowering rain forest trees with whitish, brown and here and there red or bright orange tops (B)

10.58 Low ridges noticeable (R)

11.03 Low forested ridges (B) Few lines sago along hidden streams. Mountains discernible nnnw.

11.08 Jumbled ridges. Above old garden and house. Bananas amongst grass of clearing. Sago close by. (B)

11.09 House (C) 'two garden clearings, one with one house (R)

11.11 Low hills appear inland to right (R)

11.13 Stream almost completely hidden by forest (R)

11.14 Over tributary Elevala, a winding brown stream with tall trees flattened along edges by force of water (Cloud burst?). Riffles in stream (B)
Trip # 1

11.16 Stream hardly visible through forest (R)
11.17 Stream 25 yds wide (R)
11.18 Stream 25 yds wide, and house (©) Whole surface country cut up in jumbled sharp ridges (B)
11.20 Small hills without definite direction. Rough country (R) Forest canopy east to west, not uniform, not all green. Very uneven surface. Besides various shades yellows and greens, black shadows, grays of various shades, russets and redbrowns and shadows modifying these to blackish (R) House and garden left (C). Mountains across Strickland visible (T)
11.21 Steeper ridges. Hill # 1 45 degr. House and bananas in garden (B) Foothills looming up. High ranges beyond partly clouded over.
11.22 Hill # 2 45 degr. House and garden left
11.24 Creek, quiet, 20 yds across (R) brown (C) flows west (B)
11.25 Large river from east (clear) (C) River 35 yds wide clear water, flowing west (R)
11.26 Village (C)
11.27 Black River
11.28 Black river (over) 50 yards wide, brown winding islands sandbars quiet (R) Half floodhouses down stream, changed course down river. White Gravel bed top end/small wooded island. Mt. Blucher half clouded (B)
11.28$^{1}$ Junction Black with Palmer (C) Palmer olive green in color (B)
11.35 Junction Palmer and Fly (B) Below junction big sandy island. (R)
Fallowing Fly downstream exploring for landing places on river. No set course.
11.36 Two villages
11.39 Scattered population. River fairly low. Banks uncovered. Gravel banks and snags in places, but good straight clear reaches (B) Creek (C)
11.41 Rogers says that for last 5 miles could land anywhere on stream. Village.
11.43 Turned up Fly again towards Palmer junction
11.45 From Palmer junction into Fly proper where noted a straight reach.
11.46 Examining reach in Fly
11.47 Garden
11.48 Circed back above end of reach
11.53 Again over Palmer junction (island in Palmer)
11.54 Surprise creek
11.57 Palmer junction
11.58 House, and scattered houses west of river (B)
12.00 Small river (R)
12.01 Village of 6 houses near sago swamp (R) Started out for Daru. 150 degr ship
Note: Scattered population in these parts of country with gardens along river on the points.
12.04 Elevala. 40 yards wide, flowing west (R)
12.11 Village. Clearings (C)
12.12 Sago swamps (B) Creek (C)
12.13 Village (C)
12.15 Winding muddy creek flowing towards Fly (R)
12.18 Still endless forest with rare sago swamps of small size (B) No houses anywhere Running into clouds coming from direction of coast. (B) Bearing directly upon low gap in horizon (Strickland) (T)
12.20 Creek and sago (C) Still slightly rolling hills (R)
12.25$^{1}$ Sago patch (C)
12.28 Conspicuous patch of tall light green trees on ridge top. Fairly open mixed sago and grass swamps (B) Drawing of Strickland gap still dead ahead (T) Strickland several miles away visible on port side (B)
12.30-31 Quantities of sago swamp with some forest mixed in
12.32 General change to much swampier country upon approach Strickland. Grass an probably some tea tree in swamps (B)
12.35 Two miles west of Strickland is an old filled ox-bow now grass covered with trees encroaching (R)
Trip # 1

12.35  Little brown stream flowing southeast.  (R) Mt 90 degr E.  (C)
12.36  Peak 92 degr.
Open grass area near river.
South side Strickland great swamps mixed sago and grass, and pure open forest stands, some tall slender gray tree  (B)
12.37  Peak 66 degr.
12.38  Peak 111 degr.
12.40 River from 55 degr.  Extensive grass for several square miles and pond to right  (R) Some open water in swamps along its course, and some of the grass showing seems to cover dry land.  Beyond forest, forest  (B)
12.43  Peak 66 degr.
12.44 Peak 69 degr.  Heavy  (C) scrub
12.45  Peak 87 degr
12.49  Peak 46 degr.
12.50  Peak 50 degr.  Scrub right  (C)
12.51  Creek, winding muddy, in dense forest  (B)
12.51  Peak # 3 54 degr
12.55  Peak 3 35 degr.
1.00  Range # 3 13 degr.
1.01  Small grass area parallel and to left  (R)
1.01  Small river
1.02  Still along twisting brown creek.  Small grass area to left
1.03 - 07  Still following small creek.  (C) Coming to edge of grass-lagoon country of Aramea  (R)
1.05  River 150 degr.  Lagoons 8 miles to right  (C) lagoons, swamp with grass margins to left  (R)
1.06  Large lagoon.  River to right of lagoon.  Still following little creek. It joins another.  Grass areas several hundred yards wide on bank.  (R) This seems to join up with that from the west.  (Fly,?) Grass swamp country extends but little farther east where forest begins.  (R) Some parts with tea tree swamp forest with vine-covered tree trunks  (B)
1.07  Junction large river from 40 degr.
1.07 Purple Range # 3 557 degr.  River 200 degr.
1.08  Crossing lagoons of Aramea region.  Some of the grass about lagoons and swamps appear to cover dry land  (B)
1.09  Lagoon and swamp.  Grass of some extent to right  (R)
1.10  Over forest with much sago.  Occasional patches of grass  (R)
1.12  Swamp to left; lagoons and swamp to right  (R)
1.13 Extensive lagoon and grass left.  River, wide winding, has appearance of canal  (R)
1.15  In midst of grass swamp of several square miles at least.  Goes beyond sight  (?)  (R)
1.16  Big lagoon to right  (½ X 1 mile).  (R) Village on lagoon  (C)
1.17  Passed swampy valley or two.  Forest with bits of swamp on left.  (R) Village on lagoon  (C)
1.18  Forest with bits of swamp.  Fly in sight to right  (R) Well in sight ahead  (T at 1.18?)
1.22  Forest gives way more and more to grass swamps on approach Fly.  Some areas dead tea tree forest  (B)
1.24  Area tea tree country in forest  (R)
1.25  One-house village and clearing  (R)
1.25  Village  (C)
1.26  On Left bank Fly Little mangrove here
1.26  One mile below mouth of Bituri
1.56  Over Daru.
Trip # 2. Daru - Lake Murray - Black River - Palmer Junction and back to Daru

Observers: Rand (R), Brass (B), Champion, all bearings (C), Tate (T).
Archbold's log to be intercalated.
A.M. Scale in Plane: Grass left, Rand right, Champion right, Tate right front. (r. or l. below)

6.34 Left Daru
7.04 over Left bank Fly River
Above crossing red banks and few coconuts (B). Inland from banks open grass and Tea tree savanna with low, perhaps secondary rainfor st patches. Beyond swampy, sago and rain forest with considerable grass.
7.08 Much open grass, probably mostly swamp but some dry savanna showing in rain forest of broken appearance.
7.04 to 7.09. Inland from banks very green grass swamp area running parallel to Fly. One to several hundred yards wide. Much grass country, some apparently dry up to 7.09, where more wooded areas come in. (R)
7.10 Green grass swamp several sq miles (R.) Beyond more or less wooded to 12.05
7.11 Village (C). More and more grass. Rainforest reduced to small island patches (B).
7.12 (r) Started to cross lagoon, grass swamp and dry grass ? area but very little forest.
7.13 Village (C). Big patch newly burnt grass. Low ridges small creeksand few open ponds (B 1.)
7.15 Burnt patches show that some open grass at least is dry. Everywhere up river for miles big lagoons and swamps connected with river by short creeks (B 1)
7.16 Corssed Aramea.
7.17 Wide swampy grass lands each side (B 1)
7.20 Over wooded country (R r). Big rainforest. Swamps left behind except green lines along creeks going to Aramea (B 1)
7.20 to 7.45 All forest.
7.27 Bamu 80 degr. 5 miles away.
7.30 Over Bamu R. Winding. (R r) Muddy. Much sago in forest. Apparently some tea tree in more open green swamps (B 1) Rain forest predominates.
7.35 Forest looks ridgy (C)
7.36 Still following Bamu
7.41 Small tributary to Bamu from 55 degr.
7.45 Little creek parallel to course, 3 miles to right (R)
7.43 Ridgy
7.49 Dome on Leonard Murray 50 degr.
7.50 Bamu below water hidden under trees (B 1) Small grass swamp (R1)
7.51 Tributary from 50 degr.
7.53 Crater Lake (L) Drained by creek flowing down to Bamu. Two hills beyond lake (B 1) Forest to edge. Shores higher than surrounding country (R 1)
7.54 Waterfall on Bamu. Leonard Murray 21 degr. 100 feet. (R 1)
7.55 Forest looks ridgy (C)
7.56 Still following Bamu
7.41 Small tributary to Bamu from 55 degr.
7.45 Little creek parallel to course, 3 miles to right (R)
7.43 Ridgy
7.49 Dome on Leonard Murray 50 degr.
7.50 Bamu below water hidden under trees (B 1) Small grass swamp (R 1)
7.51 Tributary from 50 degr.
7.53 Crater Lake (L) Drained by creek flowing down to Bamu. Two hills beyond lake (B 1) Forest to edge. Shores higher than surrounding country (R 1)
7.54 Waterfall on Bamu. Leonard Murray 21 degr. 100 feet. (R 1)
7.55 Forest looks ridgy (C)
7.56 Bamu 1 mile left (C) Two small gdns. Ridgy forest country (B)
7.57 Hill 90 degr. 40 to 50 miles (C) Bamu 85 degr from Leonard Murray
7.59 Leonard Murray 47 degr. 5 hills left (C)
8.0 Small open sided crater (T r)
8.0 Large Lake. 2 round hills beyond lower end (B 1) Lake edge grass and sago swamp. Much sago in surrounding forest. Outlet to Bamu from south. (C)
8.02 Steep precipitous valleys (C 1)
8.04 S. shoulder of Leonard Murray 80 degr.
8.05 Large river to left. (C)
8.08 Dome 24 degr.
8.10 to 8.11 Long House and gardens (both sides)
8.11 Leonard Murray 110 degr.
8.13 Large river 70 degr. Sandspits (C) Gardens and population, big (Long houses) Gardens generally circular clearings like green pits in forest (B.) One garden fenced (B). Note: Similar to gdn clearings on Ok Mart but houses different.
8.15 River from 65 dgr (r) on (l) same river joins another (C) Large area of 2nd growth (scattered clearings) (R and B)
Trip # 2

8.15 Same gardens with thin partitions of primary forest between them giving impression of honeycomb pattern (R and B)
8.17 Creek many villages and continuing population
8.18 River 60 deg (C 1) Two new long houses (B)
8.19 Long houses, Villages, extensive gdns. Several small creeks (C) Rough ridgy country (R)
8.20 Still gardens pop. continues. Much regrowth. Grass or swamp 5 miles left (R)
8.21 Over forest. People scattered.
8.22 Numerous streams from 60 deg.
8.25 Large river 15 miles left 225 deg. (C)
8.26 Smaller river with rapids (r) and broken limestone left (C) Deep gorge in limestone (B).
8.27 River in steep gorge from 65 deg. Pop. down river to left. Heavy forest (C)
8.28 Huge river 70 deg. Steep gorges. Population on north bank (G) Many clearings down river and away nw. (B) Big loop of Strickland (all of us) ship's course 320 deg. Flying parallel high ranges right (B)
8.31 Small pop. but scattered. Some new gardens (B)
8.32 River left 243 at 20 miles (C) Still people
8.34 Huge river from 60 deg and junction with one from 55 deg. Gardens left (G) Rand's sketch shows a creek from mw entering river on right bank. Bluff s. of river (R)
8.36 Small lake, deep (r) below bluffs. Landslides. No sign pop.
8.38 River right. Limestone cliff left. River below (B) Apparently block faulted limestone (T r) Widening of river (1.) at rock faces. Possible landslide
8.39 River flows around block mtn. (Dead trees standing in pools(B)
8.40 River right. Gardens (B). Still block faulting (T)
8.42 Rand's sketch shows a river flowing to left, nearly over junction with branch to sw, and one to ne (R) Branch to ne branches again in few miles. One branch nearly north. Two great gorges left (B) number of scattered gardens and one house (B r)
8.43 Strickland converging with course from sw (T)
8.47 Rand's sketch. Apparently following valley of stream (8.42). Bluff on left light green. Discovered stream flowing north, apparently rises close to head of stream (8.42) which turns left to Strickland at 8.47 (R)
8.48 Enter inner basin of Strickland over steep bluff or basin, immensely deep, curving from due east around to north. Bluff forms western edge of limestone mountain. (T and R) Over Devil's Race (B)
8.49 Strickland flowing 190 deg.
8.53 Strickland trending west (B). Very deep but rather short valley from right (T)
8.56 Crystal valley seen. Deep deep dark wooded valley with few gardens. Can see valley beyond which apparently widens and consists of more level cleared grass country, evidently secondary mtn valley grassland of 4 to 6000 feet. Clearing for gdns (R) Hoop pines (Auracaria) and Pandanus (B) on spurs.
8.58 Directly over Crystal Valley 47 deg. Immensely long and unusually straight. Flow directly to Strickland. Wider several miles up valley.
8.58 Shifted course to W. Several small cleared places (R)
8.59 Blucher 235 deg.
9.00 Flying over flat limestone plateau. Bare rock showing through forest on top Pandanus plentiful all through forest. Appeared to be moss-forest formation (B) Sare 262 deg (C)
9.01 Large garden (r) (R) Clouds came down on Victor Emmanuel (r)
Note: most of mtn tops clouded.
9.03 Flying up branch of Strickland. Village 10-20 houses high up sw side. Houses
Trip #2

9.03 (cont'd) appear thatched with Pandanus leaves (B). Branch of Strickland from sw (T)
9.04 Small river slightly to right (R)
9.05 Probably over Palmer-Strickland divide. Ridge parallel course on left (R)
     Beyond Tungom (not visible) and White river (R)
9.06 River at foot of Mabion (seen from left side) Probably Luap. Steep ridges (R)
     Second growth at foot of Mabion.
9.09 Over Mabion
9.12 Blucher 110 deg.
9.12½ Sare 320 deg; Karik 83 deg.
9.14 Over # 13 camp (C) Old gardens (R 1)
9.15 Note plane flew south out through gap between Blucher and Sare, and turned w.
9.17 Flying due W.
9.18 Small pop. on South slopes of Sare. Fly gap visible, "level" on port side (B)
     Note: The Narin river xkxkx enters Palmer 2 miles below camp "5" (Karius report)
     Champion says incorrect on map.
9.19 Outer ridge of Sare, parallel to it encloses small valley with outlet near
     western end, water probably to Tully. (T.)
9.21 xkxkxkkkkkk Up gradual wooded slope terminating abruptly with nor-facing
     precipices of north face of Sare. Then changed course to east.
9.24 Following small river parallel with Bol between Bol and Sare, course 90 degg.
9.25 Over the divide which joins Dap range with Sare and separates Palmer-Luap
     basin from Bol basin.
9.29 Level with eastern end of Sare; landslide with limestone beds showing
     dip of 20 degr. (T) Turn S once more.
9.33 Over Karius and Champion #
     camp 6 miles below Blucher on bend of Palmer.
9.36 Over jctn Palmer and Black (B) Palmer muddy; Black clear though dark
9.53 Flying low about and below jctn with Black, followed Palmer down
9.55 Opp. Jctn Tully. Many forest trees in flower (B)
9.56 Due w for Ok Mart in search heavily populated country reported by Oroville
     people (B)
10.01 Crossed Fly over group islands. Mtn gate of Fly 13 deg.
10.03 Sevl scattered gdns and houses (B) Squat square houses supported on numbers
     of slender poles ten feet or more from ground (R)
10.04½ Garden left
10.05 Garden (1). Many solitary houses and gardens scattered over hilly country.
     This population runs on to Ok Mart (B) Not dense pop. but people numerous
10.05½ Gardens. Two villages
10.07 Sago (1) Ok Mart below (Black water river (T) Junct small r. from Fly side(B)
10.07½ Villages
10.08 Villages. Ok Mart with fair current. Islands at intervals. Large pure stand
     of some tall grayish tree (B and T)
10.09 Forest
10.09½ Small river with sw course
10.11 Hill 295 deg. Villages perched on ridge 3 miles n. (C)
10.13 Crossed -kkkk
10.14 Two villages on baum of Alice.
     Heading back for Daru.
10.16 Village at 142 deg. Houses more scattered mostly near sago (B)
10.17 Two miles to right village (C) Villages both sides (R) and garden clearings.
10.18 Village ½ mile right. Sago. (Course set by Rogers 142).
10.19½ Two houses. Village
10.19 Village Houses well thatched with sago (B)
10.21 Loop on river half mile wide.
10.21½ Crossed Fly at D'Albertis junctn. Pop. seems to cease south of FlywBroken
     rain forest carrying many palms (B)
10.32½ New stream strongly meandering. Xkxkxkxkxkxkxkxkxk Characterless ridgy country since
     leaving Fly. Densely forested not so much Goru.
10.41 Same (?) river. Possibly Woodward's new river going to Lake Murray.
Trip #2

10.43 Left above river (B). Small sago swamps.
10.44 Two domes 98 degr.
10.45 Forest and sago left. Forest appears under water right (C).
10.46 Good deal of sago in lines and small patches. Numerous little hidden
    creeks. Some of forest floor under water (B).
10.48 Ridgy country. Much Goru and some sago. Extensive stands of tall light
    green tree with rounded tops. Saw same trees yesterday and again up Ok
    Mart today. (B) Hill #2 108 degr.
10.49 Approaching Strickland near which are sago swamps of some size.

10.50 Hill #3 61 degr.
10.52 Hill #4 124 degr.
10.55 Strickland 3 miles left.
10.59 Hill #1 70 degr.
11.00 Crossed Strickland. Small amount of grass. Immense sago swamps (R).
    North bank mostly grass swamp. S. bank immense sago forest nearly 2 minutes
    across. Scattered forest trees. Beyond the grass swamp a swamp forest
    dominated by a tall slender gray tree.
11.03 River, tributary of Strickland 75 degr. flowing through grass and sago
    swamps (B) A twisting river with water brown (R) Beyond river unbroken
    rain forest (B).
11.05 Hill #2 69 degr.
11.07 Hill #3 69 degr. Creek almost completely hidden below (R).
11.10 Hill #4 69 degr.
11.12 Narrow rippling muddy river winding ahead through forest abt 210 degr.
11.15 Hill #4 61 degr.
11.17 River from 55 degr. to 200 degr. 50 yards wide.
11.17 Old garden
11.19 Hill #4 45 degr. River 1 mile to right 205 degr.
11.21 Sago swamp (R).
11.24 Grass and Tea tree swamps.
11.27 Aramea from 15 degr. (C) Small series of lagoons to right. about 6 miles
    have been seen for some moments (R) Small muddy river (B).
11.28 Muddy river parallel with us and left. (R) Small muddy river (B).
11.29 Open swamps with tall sedges. Narrow lagoons with dark water flowing e
    by s parallel with course.
11.30 Parallel to river.
11.30 Lagoons on left bank of river. also swamp grass. Right largely forested
    exc water indistance.
11.31 Crossed river into country of lagoons and grass swamps small and large.
11.32 Crossed Aramea. Lagoons 5 miles to right. At lower end series of big
    lagoons.
11.33 Forest and sago to left; swamps right
11.35a Little savanna (dry) (R). Ridges (B).
11.35 Over forest but right and ahead lagoons and swamps.
11.36 Across very long grass swamps, scattered trees and small forest islands,
    draining down to big lagoons on port bow (B) Lagoons and swamp one mile
    to right.
11.36 Forest left. Swamps
11.37 Tea tree swamps
11.39 Crossed Aramea, winding between great open lagoons. Bamboos on some islands
    Big areas green sedge. Here and there red Azolla along margins of open
    water. (B) Apparently natural levees (R) Some islands forested.
11.44 Passing out of swamp and lagoons to forest (R) Tea tree swamp forest (B)
11.45 Open country grass and forest clumps tongues and fringes (R) Grass swamps
    containing areas tea tree swamp forest and scattered sago continue to
    interrupt rain forest. Probably grass swamps link Aramea with Fly at this
    point. (B)
11.47 Considerable blocks forest but also open country.
Trip #2

11.48 Sago swamps in forest (R)
11.50 Less grass (only patches) more tea tree as approach Fly river. Higher country? (B)
11.51 Mangrove edge for hundred yards or so from Fly (R)
11.52 Over Fly opposite Bituri. Area pale mangrove forest on big mud bank, contrasts strongly with big rain forest on north bank (B)
12.23 At Daru.

Seats in plane: Champion left, Brass left, Rand right Tate right front and occasionally r or l in rear cabin.

5.54 Left Daru
7.12 S. bank Fly
7.13 Over north end a long island mostly sago forest dotted round topped green t trees. Note: Many island in Fly, some raised and thickly forested, some mere bare mud banks, others stocked up with low mangroves. (B)
7.16-7.19 Over Kiwai. Mostly dense sago forest dotted tea tree. Patches tea swamp forest with mangroves, swamp forest and rain forest round edges. (B)
7.22 S. shore Wabuda
7.25 N. shore Wabuda
7.29 N. shore Fly. Narrow fringe mangroves, then mixed community sago and grass on swampy ground. Quantity tea tree also (B)
7.31 Belt tea tree swamp forest (B)
7.32 Mostly sago with grass and tea tree (B)
7.33 Muddy creek fringed with rain forest (B) From this creek big sago forest
7.34 Sagoswap mixed with rainforest trees (R) Plenty tall Pandanus (B) Hill
7.35 Over S. shore Dibiri. Mangrove and Nipa (Biri) forest fringing waterway (B)
7.36 Hill 3/8 left (T)
7.37 Dome hill 279 degr. Approaching shore. Forest trees coming in with sago (R)
7.38 S. shore Bamu. Island right
7.39 N. shore Bamu (T) Village left (C)
    Note: Flat swampy sago country, then wide belt browish forest, perhaps special swamp succession rain forest, with some sago and goru (B) Forest fringe to Bamu (R)
7.40 Hill 1/2 left (T) Grass swamp break in forest (R)
7.40-745 Forest (R) Still over swampy, rain (?) forest. Parts much sago (B)
7.45 Range 324 degr.
7.46 Gumu R 270 degr. Winding down from grassy swamps 3 - 4 miles up (B)
7.47 Forest trees and sago 50-50 (R)
7.50 Still over great flat brown forests. Swampier parts contain much sago as under-story. Few pure stands sago. One sago-making camp seen some miles back (B)
7.50 River 60 yds wide (R)
7.52 Hills 306 degr.
7.53 Belt dense forest (R)
7.54 Left side big lagoon dotted with islands two miles away. Grass swamps farther up, with crooked lane open water down middle (B) (nearer 7.56)
    Alt. 800 m. (T)
7.55 Hill 331 degr.
7.56 Right over river (R) Over long swamp, mostly covered green floating plants (B)
7.58 S. bank Turama. Two islands below. (Right) Generally same swampy forest with sago (B) Forest edge on river (R)
8.00 Changed course to follow river 300 degr. Same brown topped forest. Much sago and still some showing below forest. (north bank) Some dry ground carrying dryer type rain forest up (ne) from river (B)
8.02 over river again. Small island (R) Dark rainforest along river (B)
8.03 Well developed range of limestone hills to right of course paralleling river (T)
Trip # 3

8.05 Murray (Leonard) 300 degr. Brown fresh water swamp forest, intersected by
patches and belts of dark green contrasting rain forest (B)

8.09 Creek 205 degr. Dominant brown tree of special swamp forest giving way
and persisting only in patches through rain forest proper (B) Rand sketch of
lower river.

8.11 Leonard Murray 301 degr. Over river. River 300 yards wide 300 degr., trib-
utory 50 to 75 yards wide (310 degr). Junction here. House on bank (B)
Note: Following over left bank of main river.

8.13 Crossed river again with creek entering from left (south) (B)
8.14 Rain forest containing much sago with few garden clearings and solitary
houses scattered through it (B)
8.15 House on left bank see Rand sketch (R) River tortuous with angular bends
(B)

8.16 River 2 miles left of plane (R)
8.17 Hills 227 degr.
8.18 Hill 356; River turama from 256 degr.; Tate sketch of Darai Hills; of
Mt. Leonard Murray showing just over the hills. River 4 miles left of
plane (R)

8.19 Ground evidently rising. No sago, no visible signs population (B) Very long
line low jagged mountains in distance to starboard (B)

8.20 River to left two miles (R)
8.21 River 3 miles (R)
8.22 River 5 miles (R) Low hills beyond
8.24 River to left. The only break in great rain forest. Mount Champion 340 degr.

8.25 Cutting in on hummocky limestone (T) Little broken up hills (R) Conspicuous
hill 15 miles right (R). River 8 miles to left (R)
8.26 Approaching limestone. Creek off limestone flowing sw (R)
8.27 Small river along foot of limestone (C) Turama on left (B)
8.28 For some time along edge of plateau with river running parallel along its
edge (B)

8.29 Passing along edge of limestone. Low hills, then plains sloping to port (B)
Limestone forest of paler green than lowland rain forest (B)
8.31 Silhouette of many small hills of equal height 20 miles to right, apparently
edge of valley (R) River 5 miles to left of ship (R)
8.32 Getting inside scarp, over hummocky limestone. Mist ahead. (T)
8.33 Just along edge of plateau which here drops 1500 feet to level plain of
Turama to sw. Clouds beginning interfere here (Sketch R) Hilly rough
limestone. Hills like hay-cocks one to five hundred feet high. No definite
ridges (R) All forested. Mountains beyond (R) Equally pitted between the
"haycocks" (T). Stream originating on plateau and flowing about due S. (T)
Cloud field reaches only to edge of limestone barrier (B) Leonard Murray
clear above cloud field (T)

8.37 Gilower (?) 26 degr.
8.38 Along edge barrier. Leonard Murray few points off port bow (sketches
by Rand, Brass, Tate. See also photographs taken later). River still
winding along under edge Limestone. (B) To right same hilly country. without
break but definite ridges beyond.
8.40 Swinging to N. Course already 350.
8.41 Eight miles to right country drops away to river valley (R) (Kikori?)
Tate's sketch showing end of limestone and L. M. beyond it.

8.43 Over limestone. Plane altitude 1700 meters.
Leonard Murray summit a ring of jagged peaks around a central crater
opening sw (B) West peak of Leonard Murray 290 degr. Upper slopes of
Leonard Murray mossy forest, and scattered small bushy trees and shrubs, cling
to sheer gray walls of crater. (B)
8.45 Mt. Ialibu 51 degr. still over limestone (T)
8.447 Omally Peaks 302 degr.
8.48 Many miles limestone plateau stretch to low range running parallel with
main divide. (B)
Trip # 3

8.52 Leonard Murray 357 dgr (ship); Champion's compass 64 degr.
8.52* Large river from NW (T) (Kikori?)
8.53* Still over limestone (T)
8.54* Sighted lake, 13 degr.
8.56 O'Malley Peaks 302 degr.
8.57 Scattered gardens (C). Limestone ridges 110 degr.
8.58* Eight houses in valley behind ridges (C)
8.58 Big river flowing through middle of plateau, opening up in valleys (Kikori,)
Lot of swamp and sago in valley. Houses scattered round sides. Limestone runs in parallel ridges straight across our course (B) Forested, non—hummocky flats to se (T) Valley fairly well populated (R) Swamp is grass swamp without houses, few trees in it.
8.59 Lake sighted ¼ left. Ridges of limestone; valleys perhaps not. Drainage all to se between parallel ridges (T) Two houses and gardens (C)
8.59* Ridges bear 120 degr.
9.00 River 128 degr.
9.02 Lake left.
9.03 Over end of lake. Steep valley to right 130 degr.
9.05 Promontories into lake with steep sides; houses at se end; house on island; Limestone country, but the Hummocky limestone well back; ne shores flat. (T) sw side steep; west end with large flats.
9.06 circling to fly up ne side.
9.06* Gilower 306 degr.
9.09 East side of Mt. Leonard Murray 314 degr. Over parallel trough valley north of lake, close to it. River wining down center. Patch sago. Few houses. Large flat areas light brown swampy forest (B)
9.10 Mt. Hagen 33 degr.
Basement apparently reached at lake level and in nearby valleys; or else interior valleys filled with limestone silt (T)
9.11 Steep valley from 320 degr.
9.12 Swinging towards Leonard Murray. Opposite junction of two rivers coming from nw into valley (of 9.09) River flows away from Strickland. Water sluggish, green
9.14* Over large river from 316 degr.
9.15* to 9.17 Occupied in crossing nw end of lake. two rivers go into lake from 300 degr. (C) Crossed above village 19 houses (women), and one long house on island, small out houses scattered under trees around village. Canoes on lake. Number of gardens both shores; some in open clearings, others half concealed under trees. lake very deep; small patches pale green water close under south shore. South shore steep sloping, rather thinly wooded. Few exposures white rock. North shore also steep but fringed with grass meadows. Extensive grassy swamp at western end. Two long houses on small grass edged creek at eastern end. (B) Size of lake about 3 miles wide and ten miles long. Southern end with flat grassy areas. Creek flowing, meandering, probably into lake. (i.e. sw end R) Alt. plane 3000 m. Altitude of lake estimated from 2000 to 3000 feet.
9.18 Leonard Murray 250 degr.
9.19 Over small river. Bridge ? River flows from large swamp parallel top end of lake. Heading for Murray over parallel ridges limestone (B)
9.20 Huge gorge 310 degr (C) Ryan or Kikori (?) Tari Furoro valley (?) from 310 to 350 degrees. Village and gardens. Offset of Kikori gorge
Trip # 3

9.27 Crossed Kikori. Looking upstream: two wide shallow reaches filled with sandy islands, with gorge between the two reaches. Bends to northeast upstream Originated in gorges shot by Champion at 9.20. Offset possibly due to faulting. Downstream: One sandy reach including an island almost under us, just below a tributary entering river from slopes of Leonard Murray. Beyond that place river appears to narrow. River from 250 from slopes of Leonard Murray. Looking ahead at Leonard Murray, long regular slopes with radiating valleys deeply cut, spreading out fan-wise. The ridges with regular tops, crests moderately sharp.

9.30 Scattered houses on Leonard Murray slopes (B) One village at least on crest of ridge (R)

9.32 Leonard Murray cone half left
9.33 Garden (C) 
9.35 Alt. 3200 meters (shio) Slightly above level of crater
9.36 beginning to circle
9.38 Leonard Murray below. (This represents highest point of flight and was where we photographed down into the cone and had the southeast gap opposite us). Lake Campbell (now named for first time) seen ½ right/

9.40 leaving cone (B) Narrow streams glittering far down on sides of Mt. L. M.
9.42 Waterfall (by Crater Lake) first sighted dead ahead. Ships bearing 200 (near S). Lake Campbell abeam. River 4 miles away 220 degrees

9.43 Ships bearing 200. Several rivers running off slopes of Leonard Murray and spreading out fan-wise. (B and R)

9.45 Below ship 3 clearings, wide apart. Two with one house and one with seven houses. (B)
9.45½ House and clearing (C)
9.46 Bearing due S (ships compass)
9.47 Village and Long house right (C) River four miles right running south
9.47½ Waterfall ½-right (T)

9.48 Under ship two river coming down from Leonard Murray, join. Several more houses (B)

9.49 Alt. 3100 m. River two miles left 170 degr. winding course.
9.52 same winding river to port. No population either side of it (B)
9.55 Timbered swamp, open, just off west bank of river to left (B)

10.05 Bamu estimated 8 miles to west (C and T)
10.06 Tributary of Bamu originates on ridge between Bamu and Awarra, runs south. Note: No population seen since 9.48 (B)
10.06½ Village with 3 houses and old gardens left (C)
10.08 Village left. River (Awarra?) trending southeast (C)

10.10 Many small swamps through forest, and occasional houses as we approach river (B)
10.12 Bamu close under us.
10.13 Cross Bamu. Alt. 3200 m. Tributary from sw where Bamu changes direction from south to southeast.

10.14 Ship course changed to se. Some sago areas in forest, and for several mile out both sides river many patches swamp forest and grass swamps dotted with trees. Aramea basin begins close (within few miles) to the southwest margins of the Bamu, Swamps 140 to 170 degr.

10.16 Below us a village of several houses almost hidden under forest (B) ship 160º
10.17 Dry forest at divide probably indicates slight elevation of land (T)
10.19 Changed course to follow river towards coast (B) Long house and several small ones in forest (B) Aramea lagoon ten miles away 130 degrees (C)

10.20 Ship bearing 130 degr.

10.21 Big oblong house with wide grassy track leading away on two sides.
10.24 Long grass swamps in forest (B) and before that grass patches having appearance of old gardens.

10.28 Crossed Bamu (T) Lagoons of Aramea reaching in from sw almost under a ship; then wooded country until near junction of Bamu where Aramea was again bordered by swamps.
Trip # 3

Altitude of ship 3100 meters
10.30 Lagoon. Changed course for Fly river and Daru
10.31 Lagoon and Rivers. Village (C) Sago swamp (R)
10.32 Over great grass and sago swamp which occupies much of the land area between the Bamu and Fly. Fly in distance ahead (B)
10.34 Large village (C)
10.35 Good deal of dark rain forest among grass swamps and swamp forests (B)
10.38 N. bank Fly river.
10.44 S. bank Fly river. Altitude of ship down to 1700 meters
11.02 Over Daru
11.06 Down on water.
April 2, 1936

In the morning I worked on the radio to try and get a more convenient layout for the radio. The rest of the day was spent in laying out and in getting camp settled.

April 3, 1936

The day was spent the same as yesterday. I had some difficulty on account of static to make contact with Port but got through. At six the Vialala came in and we thought that the Ronald would not be in till the morning but after supper Willis' boy turned up saying that the Ronald was in. We put up a house to hold the generators, spare motor and the developing outfit. I received port all right but apparently they could not receive me.

April 4, 1936

We got up at daylight to get an early start at discharging the Ronald but did not succeed in getting her to come along side the wharf until seven but never the less we got everything onto the wharf by lunch and a lot of it moved up to the house by four when we knocked off for the day. In the excitement I forgot about the radio schedule with Port. I set the cooler up but found that a pipe connection had burst that I could not fix. Rogers and crew came back just before we sat down for supper having had a grand time.

April 5, 1936

Rogers got the cooler working about eight and by one the water was cold enough so that I developed the film that we took between Dogwa and the Fly River. The film came out all right though there was some movement in some of the pictures caused by the rough air. Rogers made a test flight and found that we were losing one hundred and forty horses. He suspects the gas and I got a telegram off to Vacuum Melbourne to find out if they sent us 87. We have had to postpone all flying until we can find out what is wrong.

April 6, 1936

I developed the section of the role take of Lake Marquerita and Mt. Leonard Murray. The came out fine. In the afternoon I developed the several of the aica and context pictures of the rest which came out fair I had a little trouble in loading one of the spools.

April 7, 1936

I developed in two batches the remaining films one got badly stuck up when the motor for winding the film fell into the water. The afternoon was spent in cataloguing the films.

April 8, 1936

Very little of note for today. It was mostly spent in wiring up various things and in getting ready for tomorrow. Juelsted insisted on doing most of the day with the wiring instead of doing as I told him get the radio set for tomorrow. He had to work most of the night.

April 9, 1936

I came on to rain a little after six and rained quite hard till almost nine which was a help to Juelsted who found that something was wrong with the radio. We got away about ten and had lunch in sight of Daru and were little farther by night fall. At five o'clock I set up the receiver and through a lot of noise I figured it up only once Juelsted talking to Port, I shut down as I noticed the motor was throwing oil. I turned up about six fifteen to tune the transmitter when I found that there was something wrong with it. I took it out of the case and found that there was tissue paper stuck to the oscillator coils also the bracket was loose and when I tried to put it back it jammed so that I had to work it out of the case. I never received them again so I do not know.
Monday April 20, 1956
6:00 VHWO will call VHWO for five minutes
6:05 - 6:15 VHWO to call
6:15 - 6:20 VHWO will call
6:20 - 6:50 VHWO will call
6:50 - 6:55 VHWO will call
6:55 - 6:55 VHWO will call

Tuesday April 21, 1956
6:00 - 6:00 repeat last evening procedure signing off at 6:30
1:00 - repeat as for six A.M.
6:00 - repeat same schedule

If there is any hitch or failure Rogers and Juelstedt to go to Port to arrange for A. W. A. set.
if they heard me or mot.

Note the following notes written on April 17, 1936

April 10, 1936

A nice breeze sprung during the night from the N. W. and continued till
sundown though towards evening it was little better than nothing. We got almost to the
reef at about two oclock when we decided that we could not make it and get back to-day
so we returned. Rogers in the plane came out and looked us over about eleven. We saw seven fishing boats that were anchored by the reef (Warrior) but we never got that far.
Last evening we saw a dugong just as we were going to anchor I forgot to include this in
last night notes, also this morning we saw a number of turtles, mostly splashers.
As we approached Bobo reef we came up to flocks of birds feeding above schools of
jumping fish, we took the dingy and rowed out and Hand shot two boobies and a petrel ?, We had no trouble keeping up with the Pitt. We also took an excursion on the reef but it netted n thing though the boys speared several small sharks and another fish. We drifted into Daru about eleven. The Doctor and Myself came ashore while Rand stayed aboard.

April 11, 1936

A rainy

Note:- The following notes not written till April 22, 1936

day Spent working on the radio. Take took the field set out to
Beeches farm and had a try at working base but had no luck.

April 12, 1936

Juelsted and Tate went out to the farm and had little better luck. We got
them but they did not get us. the resto of the day was spent in discussing the possibilities
of the radio. We decided that we would get another, different, set for the plane also
got a boat to take the party up the fly instead of using the plane.

April 13 - 16 1936

During these days I was busy working on the voltage divider for the field s
set and did not get it finished to try till the afternoon of the 16th. a plane came o
over from south afterwards we heard it was an air force plane going to the other Territory
I think the set will be better now though I am not satisfied with the strength mechanical
of the heigh tension leads.

April 17, 1936

Rogers and Rand came back from port about noon bringing Adamson with them.
there was little else doing all day

April 18 - 19, 1936

Spent in assembling a receiver so that I could take the transmitter and reciever
out to the reef. Rogers brought the harpoon gun with him so that we are taking it.

April 20, 1936

We did not get away till about eight. The wind was quite fresh from the S.E.
and we got out to the reef in good time but we did not see anything except a few bunch
of birds till we were starting to go through Wapapassage when we saw two porpoise
but they did not come close enough for a try. It took the combined efforts of the engine
and a good breeze to make any headway and then some times we were actually going backwards
the current in the center must have been at least seven and possible as heigh as ten,
when we got to eastern entrance we anchored in nine and a half fathoms about fifty yards
off the reef and we went ashore and had some fun spearing fish at least I did Rand
took his gun but did not see any desirable birds and few others. we came back to the
ship and I set up the radio and had a successful schedual with Daru. I had difficulty
in understanding them as first there was another station on top of them and second there
was a lot of static. During the day I decided finally to get one of the A. W. A. sets for
the field instead of ours, so I told Juelsted to go to Port to get it with Rogers.
We put a fly over the deck and slept on deck. we had one leight shower during the night
but it did not bother us.
The following notes written on April 24, 1936

April 21, 1936

The morning was cloudy in fact all day we had only occasional bits of sunshine we got into some quite heavy rain in the middle of the morning and we had no luck with Porpoise or anything except some birds. The wind was blowing quite hard and we would have had great difficulty harpooning anything that we saw; if we had seen anything. The Bari Varies deck leaked badly and while nothing got wet everything was damp. About three or a little before we anchored by a sand bank that had some mangrove trees which are used by sea birds and reef herons as a roost during high water.

we went ashore and tried shooting some with moderate success. The reef-herons were very shy and would not let one get within easy range, I made a lucky shot using the 22 with the telescopic sight at 220 yds. and got one heron there were apparently two species a large and a small. Rand got several terns or petrels when we got back to the boat we decided to give it up and returned to Baru in time for supper.

April 22, 1936

Heard VM announce during morning broadcast that VIG would call at 8:55 We made contact at that time and tested the new transmitter it was not so clear on this contact We made two more schedules on at ten thirty and the other at 5:00. The last was the best though he seemed to shift frequency. I did little except radio all day as it broke up the day so badly.

April 23, 1936

Spent the same as yesterday for some reason I cannot remember anything about the morning schedule. In the afternoon I started up at four thirty but did not get the motor for the generator started till 4:45 when I broadcast for take a message that the Chief would not get in and that the Varies would be unable to keep to schedule but I was wrong for the Chief came in about five ten I shut down a five and listened for VIG or VWH9 till five twenty when I picked them up on the tail end of a message for Port Romilly. I had some trouble getting the motor started for about five minutes and just before I did VIG signed off till six. I gave him a call but he did not answer. I listened from six till twenty past but he did not come back. I had a rather poor dinner party with rather more than I liked for drink consequently I went to sleep.

Note:- The following notes written April 26, 1936

April 24, 1936

I made notations till the 5:00 oclock schedule. At the 5:00 oclock schedule I had difficulty understanding him but what I got was to the effect that he would call me in the morning I was not sure whether he said eight or ten I heard him say first ten then eight. The Chief left about ten and was still in sight eight miles to the East at sundown

April 25, 1936

I listened to 4PM then to VIG with attempts to get the small set every five minutes till VIG signed off till Monday then for the small set entirely till nine oclock then again from ten to eleven (10:05 - 11:01) then to 4PM. I just was turning off the receiver after 4PM signed off when he came back and asked for a schedule immediately. We made contact but had difficulty understanding each other apparently Juelstedt was operating. We tried again at five with a little better success I could understand Mr. Frank but Juelstedt I couldn't his suggestion about the earphones I had been trying all along but had found that many ears were better than one. I do not understand what could be wrong with my modulation though last night it might have been the batteries as I was running the set quite a lot. Reports from other stations here was that my power dled down but that I was clear. No one here could understand port We are still in doubt about the future movements of the Plane and the Meira. As I have it now the Plane leaves Monday time? (morning is all) the Meira daylight Tuesday. They want a schedule for eleven Sunday.
April 26, 1936

As VIG was a little late Tate arrived in time to take the eleven o'clock schedule. We had another test of the small transmitter at five and it seemed to be working alright but from what we could tell here its frequency went all over the place. Information had it that Rogers was leaving tomorrow and that Juelsted was coming on the Meira. We had very heavy rain all yesterday morning and improving in the afternoon. To-day the weather was fine and hot.

April 27, 1936

Made contact with VIG at eleven and found that Rogers had decided to wait to test the D F. the rest of the day was spent in preparing for the inland trip in the afternoon i helped Beach make a camp oven out of two drums. The five o'clock schedule did not materialise I did not here them at all.

The following notes write May 9, 1936

April 28 - May 1, 1936

As I can not remember what happened on which day I am writing just what I can remember without any regard for sequence Rogers came back I think on the 28th and we were very busy till the Meira sailed on the 2nd the loading of the boat went very smoothly I think it was the 3rd when we went in and had a look at Mt. Blucher and the Fly River. We made a landing on the river and had no trouble except that we ran onto a sand-bank, which luckily did no damage except remove some paint. The next day was occupied with painting the bottom and gassing, I see I have lost a day some where for yesterday we made an attempt at getting in but were stopped by low clouds. We went and landed at Lake Murray again in the hopes that the weather would improve but it did not so that we came back after having spent about an hour on the lake. We bought a great number of arrows but saw few bows though one canoe that came up from another village had some. I was in the act of trading my knife for a paddle, that was nicely carved and a drum when they suddenly for no reason that we could see they buzzed off. We got stuck and also we got a flat tire when we tried to come up on the ramp so that we had to wait another day. I did not go with the plane as Juelstedt went along to take a look at Tate radio and as they had extra swags I did not want to load the ship too much. I have heard over the radio that they have been quite successful. They found the Meira and left Rand, Willis and Healey.
June 11, 1936

May 9, 1936, was the last time that I tried to write, and a lot has happened since then. I can't remember all the dates, but it was established about May 15 when we were visited by our old friends. There was some trouble with the radio and to our surprise we made another trip to the radio at Red Lake, removing one of their boys who had had a lot of trouble. On June 4 we went on an attempt to get off the lake, but we were caught in a snowstorm and we were delayed a day coming in. We left the lake on June 7, and we landed on the edge of a bay of water. After landing, we found a bog of mud, which was a mystery. After, we decided that the area was not large enough to put a village, and most of the boys were away from the camp. In two days, we decided that the lake was OK for landing, and we settled in one of the best places. We stayed at the new location for a few days, and then we returned to camp. We had some difficulty in getting a boat across the lake, but we succeeded in doing so. We also made a number of trips to the flat lands outside. On the second day, we transferred all of our supplies and returned to camp on the third day. During the interval, we were very busy. We built the radio and the radio of the other village. We had a large amount of work to do, and we had to go to the town to take the load off. We made one trip to the Blachet River River and brought 10 days of food. We had one man in a boat and got
We were ready to start for Battle Harbour, when we
received radio signals on the 22nd. We were
on the 23rd we made an unsuccessful effort
to get in and remained at sea for several days.
We could not get into the bay to get off the
mountain. We made another
try on the 25th where we were stopped
by clouds. They trying to go
under them. Instead of coming we turned to
the north at the Blah
River, and when it was declared
we turned to
sail to the north. We were
driving in the rain. We were
waiting for their

June 27, 1936
Aero Film Taken on F 1956 New Guinea Exp'd
also other flat film

1-64 Papua. Western Division
Series starts with Dogwa runs across Gariomo River to to Mouth of Fly taken at about 200 m. height 1/100 sec. A2 picture taken every 6 sec.

65-88 Papua # & Delta Division
Series started as Aeroplane Approached the southeast corner of Lake Marguerita continue around then along Norther shore aeroplane climbed from 2,500 to 3,000 m.

89-97 Approaching Mt. Leanard Murray from West alt. 3,000 to 3,100 m. no set interval

98 Papua Western Division Mabaaduan Taken by L.J. Brass, Swoing Mangrove Showing Mangrove forest fringing shore at mouth of Pahoturi River Foreground Rhizophora meucronata beyond, this species with Sonneratia Alba Sailing canoe beached amongst mangroves.

99 Same as 98

100 Same heading as 98 Mangrove forest of Rhizophora meucronata and R. conjugata fringing Pahoturi River

101 Same as 98 Mabaduan Village Showing granite shore Canoe building coconuts and type of Dwelling

102: Papua, W.D., Daru: Fairchild Amphibian with members of expedition
34-32 U.S.A. New York

33
34
35
36
37 Maryland Hagerstown
38
39
40
41
42
43
1 Panama Panama Canal
2
3
4
7-12 At Sea on board SS. Somerset

85-10 Australia New South Wales Sydney
12
13
14
15
16
17
18 Papua Paptral Division Port Moresby
19
20
21
22
23-24
25-26
27
28
29-31
32-33
34-36
37
39
40-41
42-44

Central Park from 115 Cent. Park
Looking east 50mm. lens
same as 32 but with wide angle lens
same as 32 but with 135 mm lens
living room apartment 26 6
Fairchild amphibian NR 777 at airport
ditto
Fairchild Amphibian NR 777 with
No. 1 in background
ditto
Fairchild Amphibian NR 777 at airport
ditto
ditto
Approaching Gatun locks bow of
S.S. Somerset in foreground
ditto slightly closer
ditto closer still
Gatun locks
ditto
views of Fairchild Amphibian on
deck of SS Somerset.

Circular Quay
Battle ship in harbour
Harbour bridge
Bathing resor ? Sydney Harbour
Distant view of Sydney Head from
Harbour
Close up of Sydney head
View of Sydney Heads x from outside
Expeditions boys on board Veimauri
Ditto

M.M. Veimauri
Native canoe
Ditto
Main street
Native on Dock
Mr. Oldham
Native on Dock
Natives on dock on leaving of
Boat
Fish caught outside Harbour
Shark caught off Yule Island
S.S. Papuan Chief
Kairuku
King Fish
Natives on board M.V. Veimauri

Taken by, A. L. Rand
86-20-22 Papua Western division

23 Dap Range
24
25
27
28

29-30 Stone cliff

31 Lime stone.

32-33

34 Taken by L.J. Brass

87-85 At. Sea

26-27 26
28-29 Australia Queensland Brisbane
30
32-55 Papua Western Division Daru

43-45

88-18 Papua Delta Division

19-22
23
24-26
27
28-36
37-41
42 Western Division

43 Taken by A. L. Rand

89 23-24 Papua Western Division

25-26
28-30
31-37

38-39
41
42-44
45-46 1
5-4
7
8
9
10

Strictland ???? from Air
showing above head of luap valley
Western end of Mt. Sare from air
Left side of picture, Mt. Sare and
right side Dap Range
Eastern end of Mt Saree in foreground
Mt. Mabion mid distance

Scene from the south
Big ben in Palmer rigerat Megre at
Megregor
Mt. Blutcher scenex f
Mt. Blutcher as seen from south
side
Juncti op Palmer andq Plan d

Tropic Birds
Ditto
Entrance to River
Rogers working on Motor
R.R.Rogers Cutting G. H. H..Tate’s
hair
Bamu pay-off boys in front of Luff’s
store

Slopes East of Leanard Murray Mt.
Leanard Murray slopês of
Mt. Leanard Murray
Slopes of Leanard Murray
Mt. Leanard Murray
cloud effects
Near Mouth of Oriomo River
Mainland opposite Daru

Look-out on MV Veimauri
On Board M. V. Veimauri
drifting Nipa island Stranded
Tura-tura canoes in from fishing
on Warrior reef
Green Turtle on one of above canoes
Native W. C.
natives constructing ramp for Kono
Captive hawk Haleiasstur sphenurus
View of mangrove at extrem eastern
end of Daru Island
Ornamented Bamu canoe bringing witness
for murder trial
roads from our veranda
plane on ramp, canoes in back-ground
three local natives watching plane
Lake Marguerita looking towards Gilowar Mountain
Looking East from Lake Marguerite
Lake Marguerite view

Township from air souther edge of island with Bistow Kono on ramp after return from Lake

Lake Murray from air Native in canoe Lake Murray?
Mt. Leonard Murray
Series showing Lake Marguerita
Crater of Leonard Murray

On board M.V. Veimauri
Port Moresby from dock on board M.V. Veimauri
Town from rear boat
Boys cleaning up to go ashore
Daru Warf

Dr. Vernon looking at Pawpaw tree
Dr. Vernon at home on farm
Hydnophytum on Dr. Vernon's farm
Picnic table under bambo at Dr. Vernon's farm

Young kapok tree Dr. Vernon's farm
General views of Dr. Vernon's farm
Cook house and garden at Dr. Vernon's farm
Tee tree Savanah
Arrival of Kono
Dugong pictures

Sailing canoes with plane and base camp in back ground
Rand holding Bird nest.
Boys cutting grass
Erecting pedestal for radio
Airplane and buildings from porch of main house

Comparison of head form in Rattus ringens (left) and Rattus brachyrhinus (right)

Government rest-house
King street monument to victims of cyclone
General view showing granite boulders
rest-house
King Street
Sea Shore looking west
Dwarf Coconut
Sea shore looking East
Take by G. H. H. Tate and R. A.

See no 19-20b etter pictures

21-22

Edge of sedge swamp (Eleocharis #6467) with Nymphaea #6472 growing in open water. The tree

Excoecaria #6464.

Melaleuca leucadendron swamp forest with undergrowth of Phragmites

Phnematophores of tree #6465

Mangrove forest dominated by Avicennia #6222 with ground cover of Acrostichum #6211, note Avicennia Phnematophores

Pure swamp forest of Excoecaria #6464

Pandanus #6407 on foreshore at Old Mowatta village

Our camp at Mission teacher's house in back ground beach forest Calophyllum inophyllum

Views of Old Mowatta village Fruite head Pandanus # 6407 Hahe (#6475) in open mangrove forest on sandy foreshores

Phnematophores of X Hahe (#6475) Tall mangrove forest of #6475, Excoecaria #6464 & Rhizophora mucronata

Native church

Dwarf soft shell coconut tree

Women & children in village street A coconut planted street in village Village scene showing granite rocks a Group of village children

View of village from beach, large sailing canoe under construction in foreground

Village street Rocky coast line at village, coconuts & Pandanus #6407

Village girls

Village scenes

Concrete monument to five mabaduan men lost in Thursday Isl pearling in Cyclone disaster L934

Rocky coast line East of village left foreground Wongai tree (Mimusops #6476) in background mangrove forest.
Cont.
142-15  Papua
16-20

Western Division Mabaduan
View over anchorage East of Village
Savanah forest & Large Termite
mounds two miles West of Village
Dominante grass Themeda triandra
tree stocking chiefly Melaleuca
leucadendron var. coccinea.

Taken by L. J. Brass

143-26-28 Papua
35
45,1

Western Division Daru
Lake Cambel from air
Mt. Leonard Murray from air

Note:- remaining air picture un recognisable
perhaps when printed.

Taken by A. L. Rand.
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 15</td>
<td>Schedule of Expedition Day #1</td>
</tr>
<tr>
<td>17 May 28</td>
<td>Contacts Willis 610 mi. mark delivers 10 days supplies</td>
</tr>
<tr>
<td>22 June 5th</td>
<td>Contact Willis at Mt. Blucher delivers 10 day supplies</td>
</tr>
<tr>
<td></td>
<td>Plane starts delivering 2 1/2 months stores delivering chutes 1st</td>
</tr>
<tr>
<td>17 July 10</td>
<td>Plane contact Palmer junction after finishing deliveries Mt. Blucher,</td>
</tr>
<tr>
<td></td>
<td>to pick up five boys and specimens</td>
</tr>
<tr>
<td>5 Aug 20</td>
<td>Plane deposits 1 month starts depositing 1 mo food</td>
</tr>
<tr>
<td>107 Aug 28</td>
<td>Plane starts delivering 1 mo food minus 10 days</td>
</tr>
<tr>
<td>111 Aug 31</td>
<td>Plane contact Willis at Palmer junction delivering 10 days food</td>
</tr>
<tr>
<td>121 Sept 10</td>
<td>Camp has been changed, Willis starts for Palmer junction</td>
</tr>
<tr>
<td>131 Sept 20</td>
<td>Willis back at Faim</td>
</tr>
<tr>
<td>138-141 Sept 27-30</td>
<td>Plane as for 107 &amp; 111</td>
</tr>
<tr>
<td>151 Oct 10</td>
<td>Willis Faim</td>
</tr>
<tr>
<td>161 Oct 20</td>
<td>Same as 99</td>
</tr>
<tr>
<td>169-172 Oct 28-31</td>
<td>Plane ditto 111</td>
</tr>
<tr>
<td>182 Nov 10</td>
<td>Willis back at Faim</td>
</tr>
<tr>
<td>192 Nov 20</td>
<td>99</td>
</tr>
<tr>
<td>202</td>
<td></td>
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</tbody>
</table>
Schedule #2

same as 107 & 111

199-202 Nov 27-30

212 Dec 10 Willis back at faim

222 Dec 20 Camp change to Blucher, will does not go P. J.

Plane make contact Blucher
otherwise same as 107-111
no contact Palmer junction
No text content is legible due to the handwriting style.
3/4 2 = 16
3/4 1 = 4
3/4 6 = 1/2 K
3/4 8 = 1/2 B. K
3/4 10 = 3/8 B. K
1 1/2 = 1/2 Brass colts
1 1/2 = 1/2 "
1 1/8 = 1/2 B. K
1/4 1/2 = 1/8 B. K
1/4 10 = 7/8 B. K
1/4 8 = 5/8 B. K
1/8 1 = 1/8 B. K
1/4 3/4 = 1/4 B. K
3/4 10 = 5/8 B. K
3/4 1/2 = 1/2 B. K
1/2 1/8 = 1/4 B. K
1/2 3/4 = 1/2 B. K
1/2 5/8 = 1/2 B. K
1/2 10 = 7/8 B. K

3/4 = 1/2 B. K
1/2 = 1/2 B. K
1 = 1/2 B. K
1 = 1/2 B. K
1/2 = 1/2 B. K
1/2 = 1/2 B. K
1/2 = 1/2 B. K
1/4 = 1/4 B. K

was Branches for Aphrodis

Cones, white, calcium buff
Gramps with stuff and 1 epoxy
Welded wire

1 ft. 6 in. B. K. welder rod, split
1/2
1 large drum
1/2 site lock, lock
1 coil, in assembly
1 golden starters
Generators

100 yds 044 feed wire (double)
1 bot Eclipse office parts

18 rocker arm gaskets
Gasket no.
1 - 14981
2 - 4092
1 - 27358
1 - 30854
2 - 25477

1 - 20104
1 - 27509
1 - 2894?
1 - 24290
1 - 27024
1 - 24471
1 - 22370

2 each silicon switches
4 ydco. Ballast cord
40 ft extension 1/4" thick
3 pkg. 1" industrial tape
2 - 1" cloth masking tape
3 - Dayton V. Bell
2 pkg. 100' spools. (Packard) cable
6ft. Letter shears

Matress & yellow

18
sheet aluminum, Great windows for panels, metal tires, angle sheet metal section.
Supplies for Chief of June 20

20 GQ guns
20 LRC
1000 RPN
120 LRC
120 Short I. Oxygen
120 LRC
40 Trigonal
20 Bullets
2000 rds
June 26

Needs for 5-90 mile camp
3. 50 caliber machine gun
4. 30 caliber machine gun
1. Blank box cartridges (416's or 45 gr. 30-30)
1. M1916 bayonet
1. Bottle of oil for guns
1. Bundle

Replace the 440 lbs. flour
1 ton of flour
Left for next

Schedule for 5-30 June 1936
May 18

Boy brought us your
two thousand dollars.

Ten Cents must

Bill Gates
Walter Morris paper & envelope

Black box of heavy felt
in case of alcohol

75

10

10

10
Dear Mr. Miller,

Sorry we are late but we came up two days ago but could not get on account of the clouds a whole day's trip, and every other day will be about all we can do through that may try it every day late if they go early.

35

Coming around past

24th.

Knee in 16 mm.

1905 OK yes to one half

just asked to this afternoon.
1 box molasses
eady tigers
1 can Kerosene
can cocoa
2 cases refiger
3 W tanks
Supplies to be dropped for 3 weeks for 2 month at 12 storms

90 lbs. Meat (beef, beef, salmon, fish, bacon)
30 lbs. Flour
4 lbs. Bacon of Salt B.
2 lbs. Rye Bi. Barl
40 lbs. Sugar
6 lbs. Tea
6 lbs. Coffee
14 lbs. Butter
14 lbs. Jam
14 lbs. Drapery
1 pt. Maple
2 pt. Salt
1 lb. Pepper
35 lbs. Flour
3 1/2 lbs. Bacon
1 Ham
4 lbs. Prunes
8 lbs. Honey
3 lbs. Peanut Butter
1 pt. Golden Syrup
2 lbs. Curry Powder
12 lbs. Sugar
2 lbs. Spices
2 lbs. Currants
3 lbs. Green Peas
8 lbs. Lima Beans
12 lbs. Salt
6 bottles Rum
8 bars Lutchen Soap
6 bars Soap
2 lbs. Custard Powder
33 lbs. Onion
70 lbs. Potatoes
10 lbs. B. Round
5 lbs. Porridge
1. 16 oz. Epsom Salt
2. 250 x 500 g. Limestone Salt
3. 3 Bottles iodine
4. 10 x 2" Bandages
5. 1% Turpentine
6. Rolls sanitary paper
7. 1/2 Benzine
8. Arrows

Nature Store

1000 lbs. Rice
500 lbs. Peas
36 lbs. Meat
14 lbs. Butter
28 lbs. Sugar
28 lbs. Tea
7 lbs. Tobacco
4 lbs. Kerosene soap
6 do. Patish
3 do. Paraffin

To be added to this Police Hospital for
20 policemen

Close collection 26th Dec. 1961. To be collected on 27th Dec. (labeled hands #2)

One month of 75% to be dressed
at Mabion for heavy, labor - labour
plus 6 policemen

1937-1938

4 x 2 of Cattle also

3, 5 x 1 of Mabion
<table>
<thead>
<tr>
<th>1236</th>
<th>Scott</th>
<th>11.80</th>
<th>24.5</th>
<th>28.7</th>
<th>28-17</th>
<th>Weyman 1969</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>12.00</td>
<td>24.5</td>
<td>28.7</td>
<td>28-17</td>
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<td>600pm</td>
<td>22.5</td>
<td>29</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Hodels Thursday Island
Ship my cargo ceramic

Saff

Vacuum Melbourne

Sorry no Cheque sent will mail new Cheque per your letter. Have received stop plans exist yet. More by total loss stop. Designing discharging of existing supply of gas please advise.

Preluded
Monday, Broadcat, July 10, 1939

[no address]

Romo sunk Fort Moseby ninth. Total loss stop. Rogers proceed by sea to direct Guine. Arrive late next week. Will drop fifteen hundred rounds food. By Mr. Morris will proceed to Balboa Junction. I am going along. Takey head. Want staff suggest you return Palma Junction Black River camp. lates. good finished of N.
Rogers going to sea to-day to go with ground-airway plan to drop 15,000 pounds food and following note (see message: "Tell" follow page).
Our plane sunk Post-mortem July ninth
and is total loss stop request you also what
collecting possible with present food stuffs
allowing sufficient for return Black River Camp
stop Mevo coming immediately barn with
the meat supplied I will go to Huine Maidment
launch Wafoi stop I will go up to camp
from length want reached by Mevo and await
your return stop these will be not be
another sailing by Bon Archbold

Barn

Our plane sunk Post-mortem July
ninth is total loss stop some deliver
Queen Airways plane has clipped fifteen hundred
promised foot of motion with meat to come out
before the supplies are finished stop I am coming
by will the Mevo taking also Maidment
launch Wafoi in order to proceed to your
camp with three months supplies on foot Mevo
Archbold

Bank of New South Wales Money

Please honor any check
Perus allow Russell R. Keay to draw money against my account am writing

1 - 1853
1258

3 - 104
11 5 M 19

Archbold Eff Darr

Regret hearing mishap in delay injustifit pontoons by steno.

Moody Instructed

Walter

Boston

2,000
Tote

Will probably get Y. Black
never can yield enough tone
will run out before leaves

12 P M 21 8-40 Dr ll

Archbold Don

References to on special item
10 timely orders whether check
was enclosed with letter

Archbold
Van Dr. v

13 P M 24 11-20 Dr

Dr. Archbold Dear

An application representative
please understand you stocks + returning
value of your disposition

Problems

14 P M 29 12-00 Dr

Archbold Dear

$25,000.00. Arrived Friday for final
balance due. We will expect you to
be up on Monday or will
be back to Black Acres. Looking for
Blacks. Director of

Tate
not received

15 Cents W.A. Stilwell
Paid Oct 5th 45 90

Dishonesty. Myself. On the plane some time all food being
removed. Will handle and advise your ship.

Should accident occur your returning experience might
be better. Should settlement here

my cable address. Cable details Cable Washington

Hasty Washington no signature from cable Washington to.
150 10 Jul 13

Dear Mr. P.

Please consider the following: after returning to Black River, stay here until early August. If so, in that case we must have the necessary 150,000 specimens. If enough good is gone out to Black River before these last days from Wednesday, stop in early case believe more are needed. Black River stop light day sooner build draft. There is a need for legal means to allow all important papers to be forwarded to Black River under proper legal.
We reach Black with three hundred paper to deliver one signed copy to deliver an original as soon as possible. We also left a letter with your agent asking for money to keep the money in the Black mail, but sorry, unable to assemble Black.
Tate

Weather will decide which of the alternatives, Black Sea or S. Korn, is sufficient for delivery of Black Sea sugar any way but will advance progress by radio.

Rogers Sea

If unsuccessful, Black Sea will pass a front while Kono arrived.
Archbold Daru,

very sorry about plane no news yet insurance newspaper reports you intending buying twin motored sikorsky returning united states stop is it wise buying another expensive plane plane now are your well mother

Archbold Daru your telegram eighteenth Ward Williams has instructed his representative frame to load Daru twenty five drums stenavo ethyl aviation gasoline eighty seven and all the stenavo engine oil 120 available please obtain receipt for quantity taken from Ward Williams forward same to Steamships Port Moresby Melbourne

Nicholson Maira

Ronald S on her way to Fly River have arranged for her to Complete Maira trip stop negotiation for towage Maira to Daru further news later report to us every opportunity steamships

Arcubold Maira

last trip of Maira 15 days from Daru better find out absolutely how long rands food will last and if possible can they raft down to Oriville base expect Ronald leave Daru August 1st this depends on Vernon getting boys Rogers

Rand Black River camp unable proceed further due crankshaft breaking stop please recheck food stop arrangement made Ronald S to take two tons Griville camp stop Juelstedt returned Daru to get Goodwill to stand by in case Ronald is delayed where approximately do your intend establishing next collecting camp important if you want Wuroi and Dingy stop I intend coming up with Wuroi when you are established new camp.

Archbold

Is damaged plane for sale quote price C.I.P if insured by whom Marshall Sydney

Arcubold

If they want to work lower fly would not Junkers 34 be a good ship on floats It could be used as second ship on your next trip Rogers

in response to my inquiry as to service ceiling the following message Archbold

Service ceiling sixteen thousand feet. But with new set edo floats for next trip controllable pitch props would raise pay load and ceiling considerably also cruising range stop present pay load thousand pounds with enough fuel for five hundred miles stop all messages offering assistance have been attended to using your n
name except one from your mother stop refering junkers price fitted with floats
twelve thousand dollars probably take less

rogers

Archbold relayed through VIG
July 29

Fuel rations here for sixty days boys for three weeks 5 weeks
Plan to establish next camp between Everill junction and the Dutch border stop we
can't have the col collapsible boat advisable meet us at Everill camp (orville) or heigher but we
can raft lower with safety (after Dutch border add: where we can reach

July 30
7:45 made contact and another schedule for 8:45 VHW8&9
8:20 got message from yesterday as above VHW8& VIG
8:45 VHW8 & 9
Rand Ability

Ability to get Wuroi to camp will depend on how much the Ronald S can take
if she can take everything I can bring her to your camp when you are set.
archbold

need firstword shifted to voice and asked something when he went off air
when over and told him

we have slightly less than four tons on board Ronald S will take only two
tons of food according to information from port stop she will proceed up river
untill she picks you up then bring you down to next camp stop I will wait here
on Neira untill you are established

Replyed all OK have you any news of Juelstedt

replied If you have trouble

broadcast at 7:45 so listen for me at that time

there is no news of Juelstedt

Archbold

5 V85 VHW8 & VIG

Archbold Maira

refering your telegram 25 ward williams now requires only 20
Stenavo ethyl 87 Daru please instruct frame load 14 leaving 8 for refueling amphibian
daru oil requirements unchanged

Maira

Nicholson Maira

Ronald expected leave Daru Thursday Fitch returning Montoro sixth
august hope everything going well will communicate again tomorrow
Steamships

Archbold

Refering gas supplies at Daru sugest we send reference copies
of messages to beach and ask him to keep a record of disposition of fuel

Rogers

there followed verbal conversation to the effect of OK and that the Ronald
is proceeding via Bamu and to tell tate to blow out fuel line.

July 30, 1936
7:35
Tate

Rogers sugest removing generator fuel line and blowing out stop Ronald
S leaving august sixth via Bamu for boys stop will tell Juelstedt get Goodwill
if unable there will have to be another plane delivery as I do not expect Ronald
will reach Oriville camp before twenty second

Archbold k k
Will Wuroi come too

Wuroi will come if possible if Ronald can't take gasoline there is no point in taking her.

is there any chance of getting Vaalala ???????

There is no chance as she is en route Samari stop is there anything you want do you mean by ammunition a request sent day we left Daru.

He never replied and Pig did not raise him.

8:20 Vig & VHW3

Nil both sides port made schedule for VHW3 to call me Nine o'clock.
(9:00 No sign of VHW3 gave him a shout at 9:10.

% 5:

Archbold New York

All will returning America as soon as I can get which supplies to inland party at present vessel with broken crankshaft relief coming in couple of days.

Have you contacted VHW3 we did not hear him where is Ronald S.

Hufty Washington

advise disposition of plane stop have been several offers to buy referred them to you.

Nicholson

Well Nicko how is the alligator farm all clear here Bill is a chip off the old block carrying on in fine style family all well and sending love cherio.

Steamships

Ordered crank shaft do you require crankshaft bare or complete with balance weights advise.

Steamships

This message I can't find original

Followed conversation about Ronald S.