

SPRAT #1

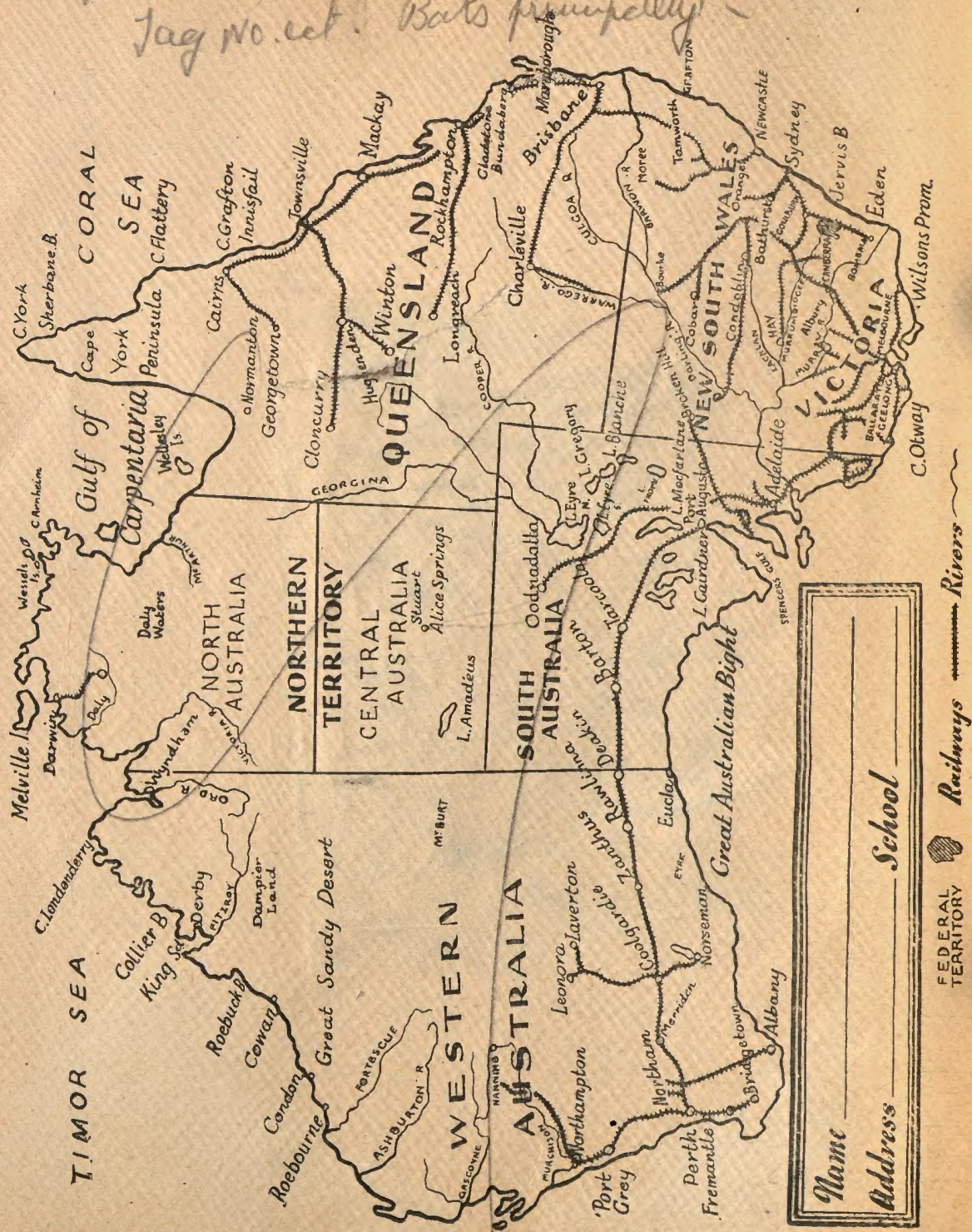
MATERIAL

L. MACMILLAN
TANNA

NEW HEBRIDES

SP
Notebook
#1
Tanna
Evangelical
Mission

Some channels in back of book.
Tag no. cat. Bats principally -



Southern New Hebrides Wogs.

Tanna Is.

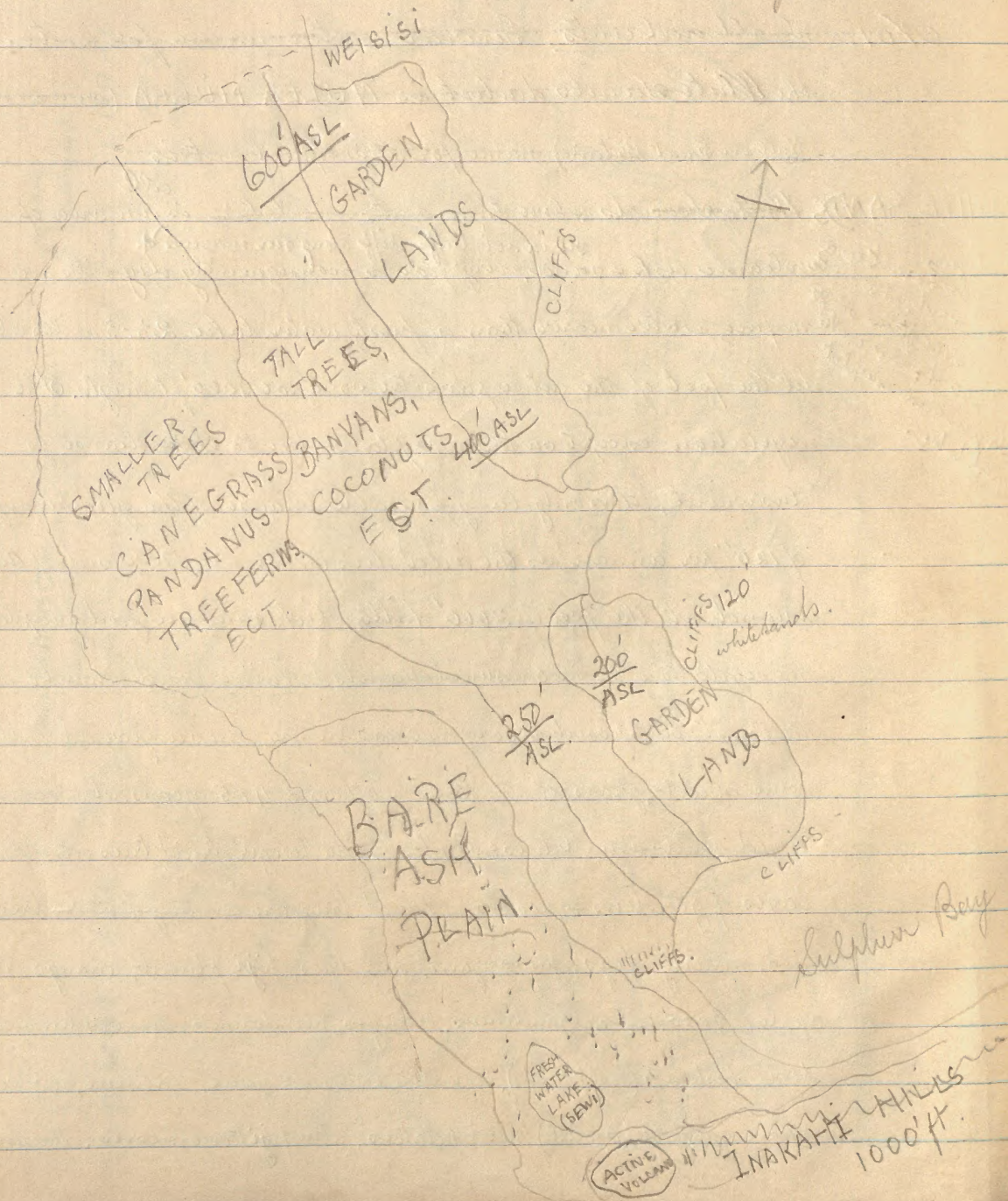
Not Small ant ants. General native name for ants in the White Sands dialect is MÜLLA MÜLLA (same as is bee Mull in Great Britain) name for this special ant is

WHITE SANDS ~~White Sands where these ants were taken~~ ^{all} is an area of volcanic ash + sand, very porous + consequently dry with no surface water nearer than a fresh water lake $2\frac{1}{2}$ - 3 miles inland at the foot of the active parasitic volcano 1000 ft high. The vegetation except on the ash plain close to the volcano is luxuriant, this only being possible because of the good rainfall of 120" per annum as the area lies on the weather side of the island at the foot of 3000' hills which cause a good precipitation. The vegetation is in 3 distinct bands. De Native garden lands near the coast composed of garden areas in use, one a year old with some scrub grasses in them + others 3, 4 + 5 years old of various sized scrub, small trees + shrubs, with larger fruit trees etc along edges of gardens + roads. Fruit trees are amongst others breadfruit, many figs, few banyans, nut trees, figi plum, mango, rose apple, coconuts, pandanus, oranges, mandarines, limes + lemons, horse chestnuts (wild figs), garden eggs are yam, manioc, sugar cane, native cabbage (pink), sweet potatoes ^a little figi turn, + corn. The scrub

* Overlying volcanic basalt lava black + red, at a depth of from 100 ft to 250 ft + more. Day in area except at fresh lake.

White Sand area

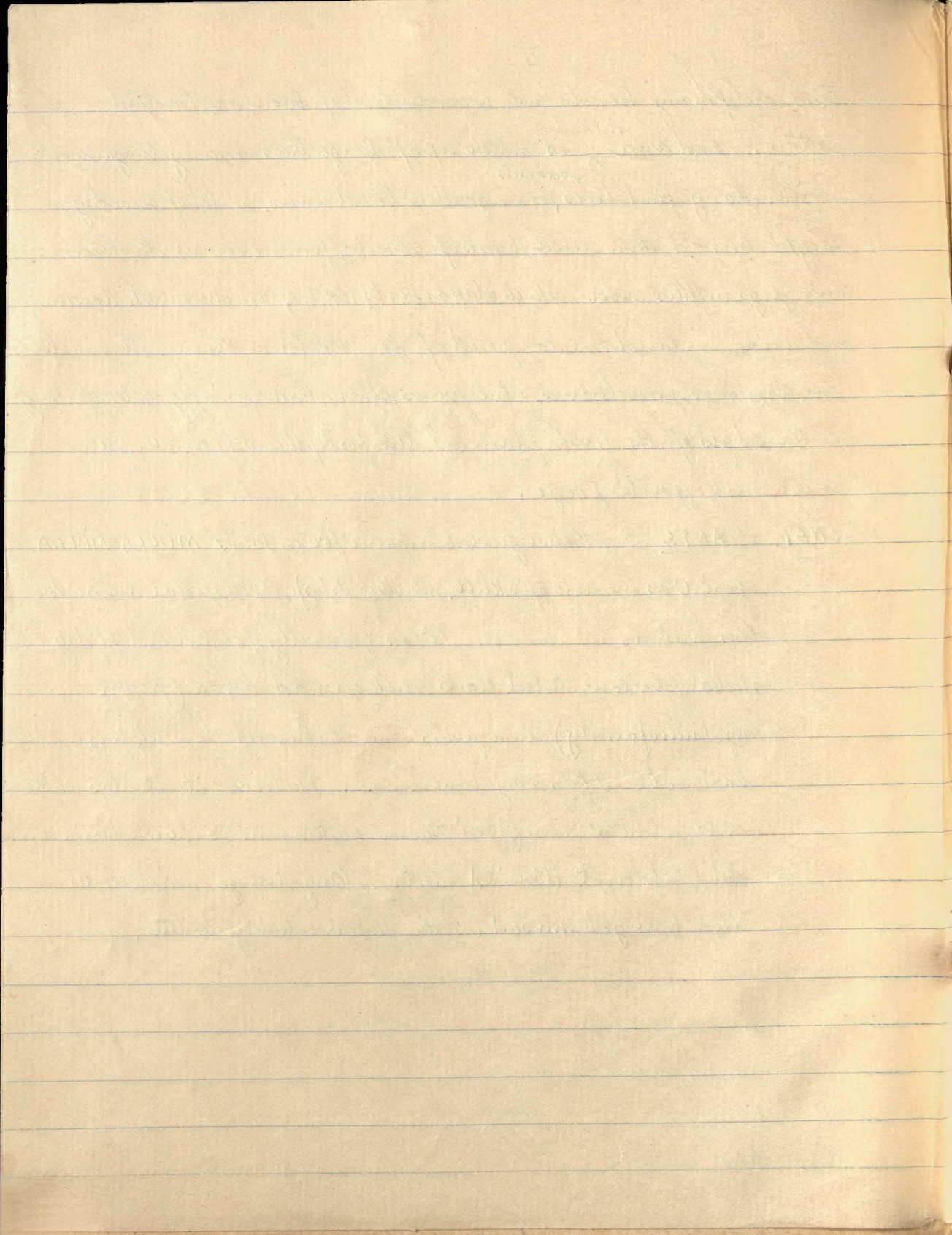
not to scale & approximate only.



trees are of many kinds with a good deal of Bru or bastard cotton. 2nd area ^{inland} is made up of large trees, many banyans ^{coconuts} ect with many fruit trees, as in garden land areas, a lot of secondary light trees & a thin underbrush of scrub, ferns ect. Natives run their pigs in this area which also assists to keep underbrush down.

3rd area inland is composed of fewer & lower trees with much cane grass, pandanus, & true ferns, these three finally predominating on the edges of the ash plain at the foot of the volcano. see rough map opposite page.

↓ Vial NO 1. ✓ ANTS Native general name for ants is MÜLLA MÜLLA (short U as in isle of Mull, British Isles) the special name for this ant is . It is generally found in the dry sticks of hollow tubed plants such as wild kava (pepper myrtium family), cane grass & in hollowed limbs of trees under bark ect. It is very common. I believe it attacks white ants when it can get at them & often makes its own home in old white ant (termites) nests. (Any strange insects in the vial have got mixed in the larger catching bottle)



VIAL NO 2 ✓ (small sign)

assorted small spiders

Small many spider yellow. common in bushes + cane
guars often completely covering small bushes or areas of
same with their webs. favours cane guars + close stemmed
or leaved bushes.

Other spiders found in numerous places under bark, in
small funnel webs in holes in trees, open webs on bushes
ect. still common in area.

1894 Nov. 4 (Sun. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 1895)

Jan. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 1896

Feb. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 1897

Mar. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 1898

Apr. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 1899

May 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 1900

June 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 1901

July 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 1902

Aug. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 1903

Sept. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 1904

Oct. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 1905

Nov. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 1906

Dec. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 1907

1908

1909

1910

1911

1912

1913

1914

1915

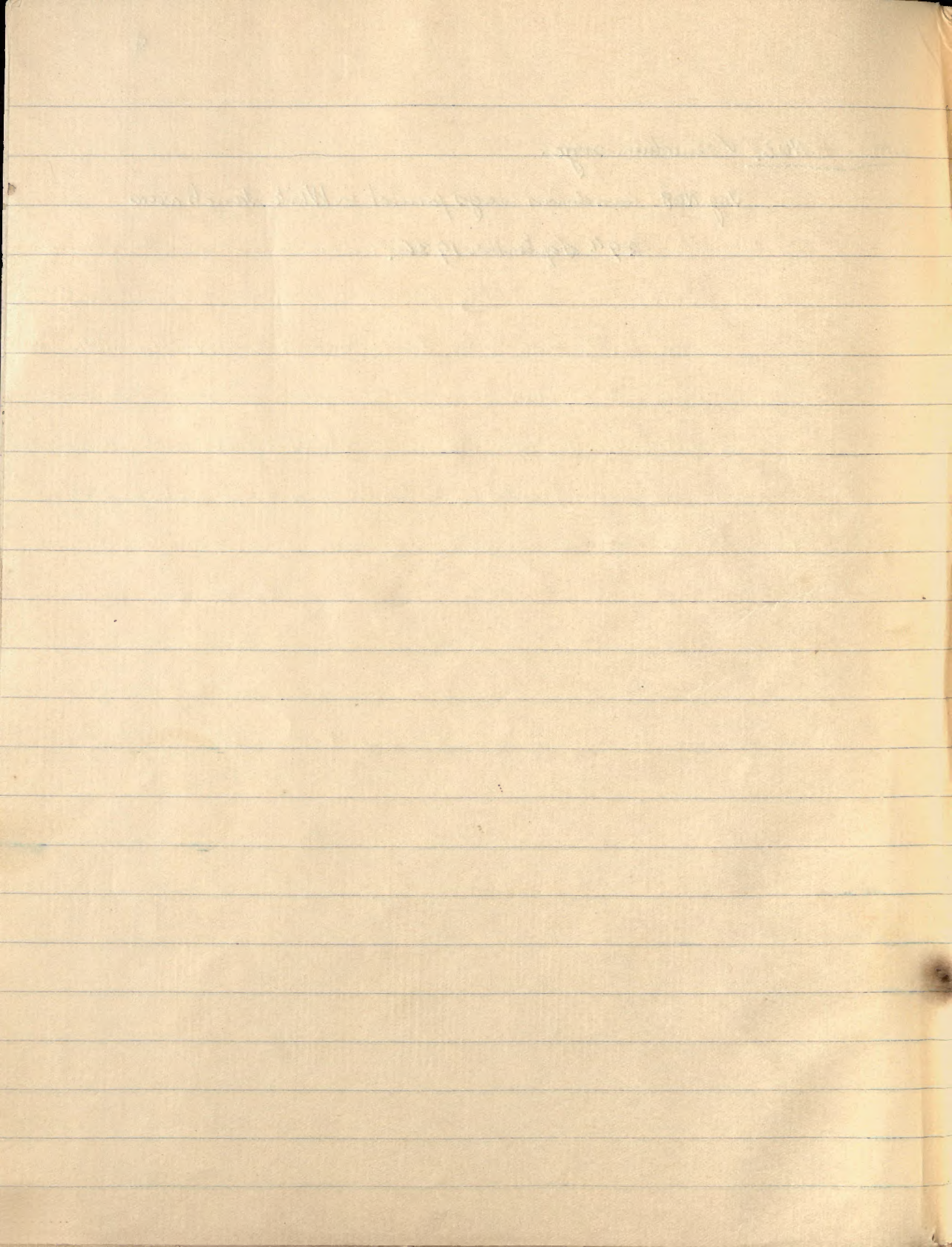
1916

4

VIAL NO3. ✓ medium size.

Tag NO8. numerous wags found in White Sands area

29th September 1936.



5

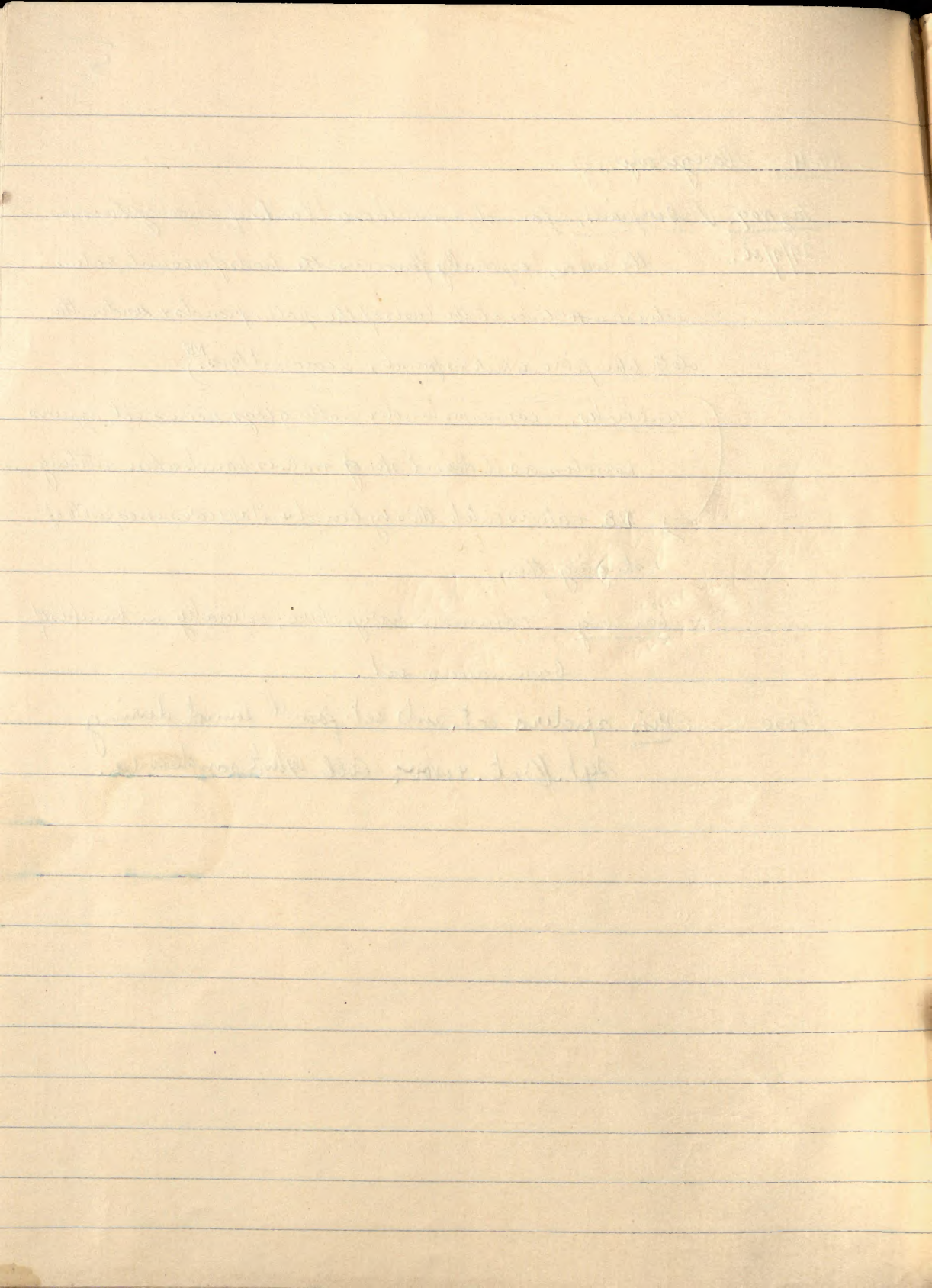
VIAL NO. 4 large size

Tag No. 9. ✓ Scorpions, found under loose bark of many trees in
29/9/36. the area, especially favours the heads of coconut palms
where it ~~also~~ lives at the bases of the palm fronds & under the
cloth like fibre which is found in coconut tops. ^{N.B.}

Centipedes. common under rotting logs, stones ect, appears
harmless as it doesn't sting natives hands when catching
N.B. natives catch this by hand & it appears incapable of
stinging them.

Ear wig common everywhere, especially in bunches of
bananas ect.

Loose. Miss spiders ect. ants ect. found found during
Sept. Oct. & Nov. all white sand area.



2

vial. Large bottle ~~by~~ No. 5.

Collected white sand area.

Tag No. 10.

Collected 29th September 1936.

1 Gecko lizard + egg of lizard

The Gecko lizard is called GEC KQOU + is greatly feared by the majority of natives who will not handle it. Strangely they can give no real reason for their fear except "skin he no good, hand he no good, he cold" meaning the feeling of the suckers on the fat. Personally I believe it has been a sign of some secret society of previous inhabitants which has been overlaid + forgotten by the later Polynesian conquerors on the island but is ~~for~~^{greatly} feared still although the reason is lost. The lizard is common everywhere in hollows, under bark, under logs, in thatch of houses in coconut ^{palm} heads ect.

1 large green stick insect Common on cane grass coconuts, lantana ect. Is eaten by the natives. Often seen attached by a leg in their hair + thus kept alive till eaten.

October very dry month.
Little rain between October 1st &
Nov. 18th.

1

Vial 5. cont

Tag 11.

Numerous lizards found in White Sands area between Oct 1 and 31st, 1936.

Tag 12

centipedes found White Sands area during October 1936.

Loose mecinurus found White Sands Oct 1936.

Tag 13

Mass of crabs, beetles, spiders, mites, crickets, slugs ect. ect. collected by a native in Area near White Sands. Oct 21, 1936. (mostly in garden lands).

Tag 14

Principally crabs. Musc. White Sands November 1936.

Tag 15

28/11/36: insects dominated by *Collocalia vanboroughensis* when shot, while feeding on wing at sunset.
28 November 1936

Tag 89.

wood grubs found in rotting log, White Sands, East Tanna, 1st Dec 1936.

Tag 88

Musc. 100g collected Garden lands area 200 ASL. fine sunny weather after long dry spell 4 weeks White Sands East Tanna, 3rd December 1936.

Page 3. cont

Page 11.

Thomson's engine found in 1881
at the same place, but not found 1882

Page 12.

Thomson's engine found in 1881
at the same place, but not found 1882

Page 13.

Thomson's engine found in 1881
at the same place, but not found 1882

Page 14.

Thomson's engine found in 1881
at the same place, but not found 1882

Page 15.

Thomson's engine found in 1881
at the same place, but not found 1882

Page 16.

Thomson's engine found in 1881
at the same place, but not found 1882

4
(Cont) Vial 5 large bottle. Anything loose in this vial is from
White Sands Tanna, New Hebrides

Tag 16 White ants, found white sands, 4th Dec. 1936

Tag 92. Snails found in stomach of *Turdus* (thrush)
Enromanga. see field book birds for exact date.

Tag 86. Becho Lizards found in house. Enromanga Is.

Tag 85 Lizards found in open grassland area, 8-1000' ASL.
Open grassland plateau with numerous patches
hardwood scrub + scrubby gullies. W side of Island.

North Dellons Bay area, Enromanga, New Hebrides.

Tag 84 Miscel. spiders, ect. generally large.

Found open grasslands plateau 8-1000' ASL.

Open grassland plateau with numerous patches
hardwood scrub + scrubby gullies. North Dellons
Bay. Enromanga Is. Southern New Hebrides

Tag 83 Ditto above but smaller insects ants ect.

Same place + area.

FULL

JAR

15-30th MAY. 1937

Left at 8:30 AM. The first of the
day's work was done in the
field.

At 10:00 AM. The first of the
day's work was done in the
field.

At 11:00 AM. The first of the
day's work was done in the
field.

At 12:00 PM. The first of the
day's work was done in the
field.

At 1:00 PM. The first of the
day's work was done in the
field.

At 2:00 PM. The first of the
day's work was done in the
field.

At 3:00 PM. The first of the
day's work was done in the
field.

At 4:00 PM. The first of the
day's work was done in the
field.

At 5:00 PM. The first of the
day's work was done in the
field.

At 6:00 PM. The first of the
day's work was done in the
field.

At 7:00 PM. The first of the
day's work was done in the
field.

At 8:00 PM. The first of the
day's work was done in the
field.

At 9:00 PM. The first of the
day's work was done in the
field.

At 10:00 PM. The first of the
day's work was done in the
field.

At 11:00 PM. The first of the
day's work was done in the
field.

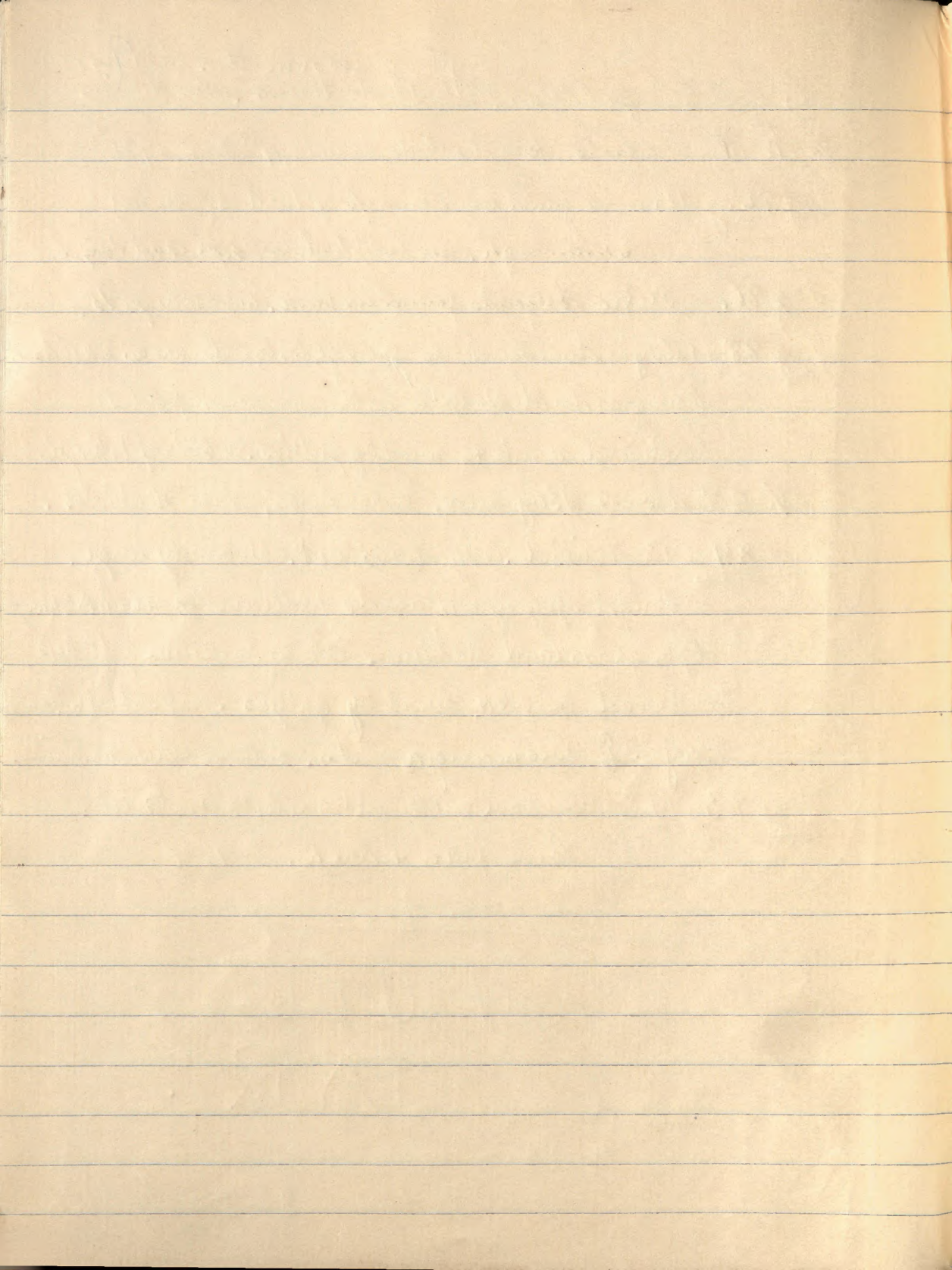
At 12:00 AM. The first of the
day's work was done in the
field.

At 1:00 AM. The first of the
day's work was done in the
field.

At 2:00 AM. The first of the
day's work was done in the
field.

At 3:00 AM. The first of the
day's work was done in the
field.

At 4:00 AM. The first of the
day's work was done in the
field.



Vial6. large tube. ✓

Miscellaneous beetles + insects White Sands area

Collected November 1936.

Book 1. C. Long 1810

Handwritten notes on the left margin

Book 1. C. Long 1810

U

1. *Chrysomelidae*

Chrysomelidae, subgenus *Chrysomelidae*, 1926

Chrysomelidae, subgenus *Chrysomelidae*, 1926

12

Large bottle vial 8.

Tag no 82. Lizards found on tree around
Erromanga. 24-31st May 1937.
Large Gecko inhabits coconut palm tops.
not found in houses.

Tag 80. Snails found on tree around
Erromanga Island, all levels from sea
level to 3000' ASL. anywhere where there is
a ferny or dense underbrush. 24-31st May 1937.

Tag 79. Insects found on tree all around
Erromanga from sea level to 3000' ASL.
24-31 May 1937. Mixed.

Tag 49 Residue left in bottle from above.

Tag 77. *Lucidus lagardt* shot Aniva Is.
March 1937.

Set by boys data not available at time of dispatch.

Tag 78. 2 *Eudamynus* shot Aniva March + April 1937.

Tag 77. Lizards found on Aniva Is. March, April, 1937.
Small low coraline uplift island 40000 acres, mostly
hardwood scrub + native garden lands. (continued)

of the rock 8.

Fig no 80. Large fossil found on the ground.

Preservation. 24-31 July 1937.

Large. 24-31 July 1937.

24-31 July 1937.

Fig 80. Large fossil found on the ground.

Preservation. 24-31 July 1937.

Large. 24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

24-31 July 1937.

Vial 8 large bottle.

Much introduced Queensland cedar trees. Normally
tall forest. Greatest elevation on island 130 ft ASL.

Tag 78. Insects found on Aniwa March-April

1937. see above description.

Southern New Hebrides.

Tag 76. Arats + insects found Aniwa Is. March +

April 1937. Southern New Hebrides.

Vial 9

Mammals + birds

Mammals see tags numbers at back of this book.

Tag 28.

Loriculus layardi.

shot Anuwa April 1937.

No data to hand at time of dispatch.

Shot by native.

Tag 197.

2 *Eudampmas* shot on Anuwa Is.

March April 1937.

Shot by boys no data to hand at time of
Dispatch.

Birds

1917

attempts to find

the most effective

1917

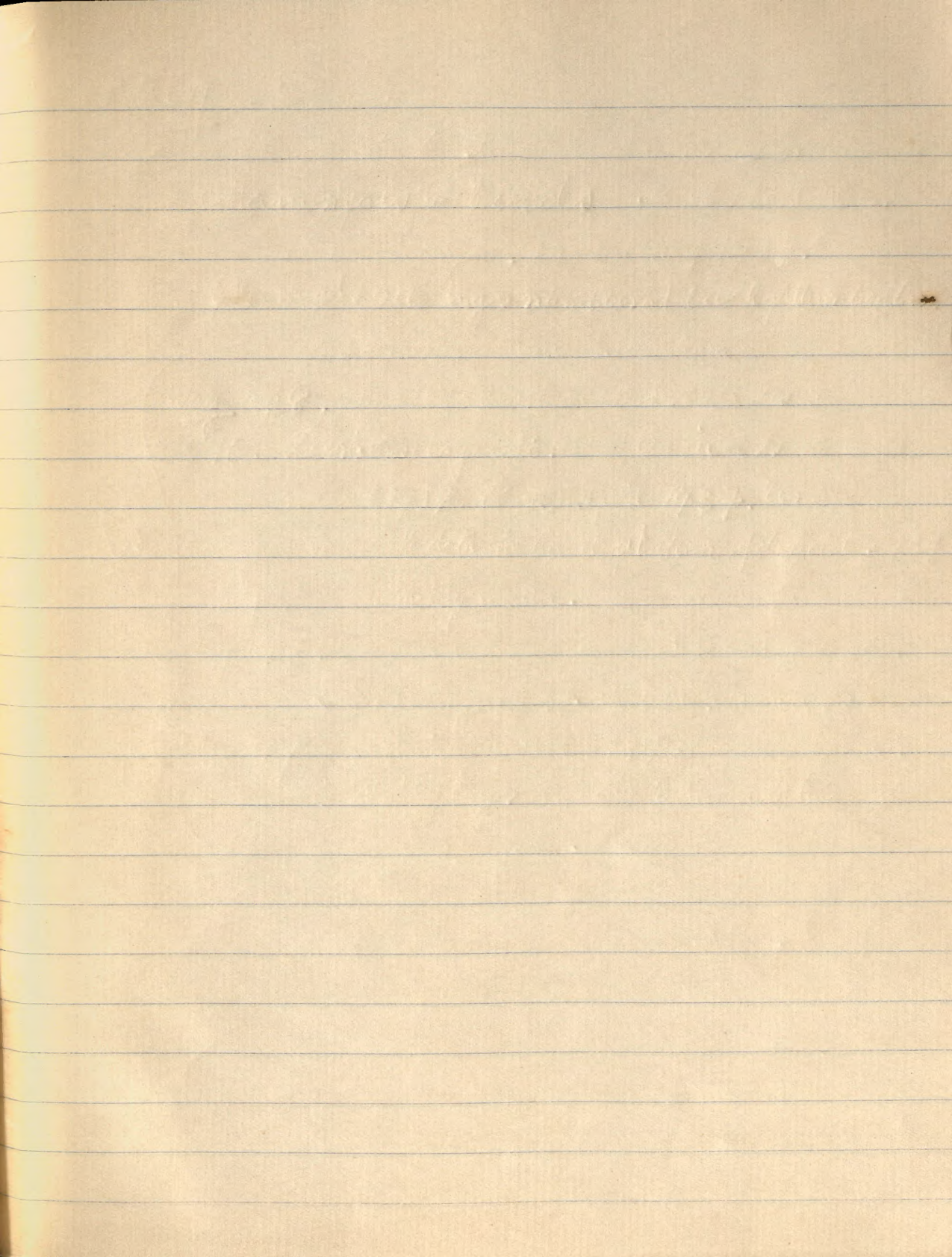
the date is found

1917

1917

the date is found

the date is found



211

1900-1901

1902-1903

1904-1905

1906-1907

1908-1909

1910-1911

1912-1913

1914-1915

1916-1917

1918-1919

1920-1921

1922-1923

1924-1925

1926-1927

1928-1929

1930-1931

1932-1933

1934-1935

1936-1937

1938-1939

1940-1941

1891

1891

1891

Tag 17. Bat caught White Sands, East Tanna.

(SP) put in
Enronanga bottle.

4th Dec, 1936. Fine sunny rain at night
switched with brand in native garden 7 P.M.

Tag 99

3 Bats caught on wing at dusk 14th Jan 1937.
Moon normal dull showy weather, in open
grassland paddock numerous trees about
(parkland) 1200 ASL near sea coast, East
side Tanna island, (White Sands) Southern
New Heb. West. Pacific.

Tag 81

Bat caught on wing at dusk flying over
native compound 1200' ASL. Bunked Bay
SW Enronanga Is. Southern New Hebrides.
30th May 1937.

ARITHMETICAL TABLES

Numeration Table.

Units	1
Tens	12
Hundreds	123
Thousands	1,234
Tens of Thousands	12,345
Hundreds of Thousands	123,456
Millions	1,234,567
Tens of Millions	12,345,678
Hundreds of Millions	123,456,789

Sterling Money Table.

4 Farthings	1 Penny	d.
12 Pence	1 Shilling	s.
2 Shillings	1 Florin	
2 Sh. & Sixpence	1 Half Crown	
5 Shillings	1 Crown	cr.
10 Shillings	1 Half Sov.	
20 Shill'gs	1 Sov.	£
21 Shillings	1 Guinea	

Arithmetical Signs.

+ Plus; Sign of Addition
— Minus; Sign of Subtraction
× Sign of Multiplication
÷ Sign of Division
= Sign of Equality
::: Sign of Proportion
° Degree; ' Minute; " Second
∴ Therefore; ∵ Because

Troy Weight.

FOR GOLD, SILVER AND JEWELS.	
24 Grains	1 Pennywgt. dwt.
20 Pe'nywgt's.	1 Ounce oz.
12 Ounces	1 Pound lb.

Apothecaries' Weight.

FOR MIXING MEDICINES.	
20 Grains	1 Scruple scr.
3 Scruples	1 Drachm dr.
8 Drachms	1 Ounce oz.
12 Ounces	1 Pound lb.

Avoirdupois Weight.

FOR ALL GOODS EXCEPT GOLD	
SILVER AND JEWELS.	
16 Drachms	1 Ounce oz.
16 Ounces	1 Pound lb.
14 Pounds	1 Stone st.
28 Pounds	1 Quarter qr.
4 Quarters	1 Hunder'dwt. cwt.
20 Cwt.	1 Ton tn.

Hay and Straw Weight.

36 lb. Straw	1 Truss
56 lb. Old Hay	1 Truss
60 lb. New Hay	1 Truss
36 Trusses	1 Load

Long or Lineal Measure.

12 Lines	1 Inch in.
12 Inches	1 Foot ft.
3 Feet	1 Yard yd.
2 Yards	1 Fathom f.
5½ Yards	1 Pole or Perch
40 Poles	1 Furlong fur.
8 F'rlongs	or 1760 Yds. 1 Mile

Cloth Measure.

2½ Inches	1 Nail
4 Nails	1 Quarter of a Yard
4 Quarters	1 Yard

Solid or Cubic Measure.

1728 Cubic Inches	1 Cubic Ft.
27 Cubic Feet	1 Cubic Yd.
24½ Cubic Feet	1 Solid Perch
mason's work	
12 Cubic Feet	1 Solid Perch
brick work	

Imperial Heaped Measure.

Avoird. of Water. lb.	
8 Gallons	1 Bushel
3 Bushels	1 Sack
12 Sacks	1 Chaldron

Imperial Dry Measure.

Avoird. of Water. lb. oz.	
2 Glasses	1 Noggin
3 Noggins	1 Pint
2 Pints	1 Quart
4 Quarts	1 Gallon
2 Gallons	1 Peck
4 Pecks	1 Bushel
8 Bushels	1 Quarter

Square Measure.

144 Square Inches	1 Square Ft.
9 Square Feet	1 Square Yd.
30½ Square Yards	1 Square Pole
40 Square Poles	1 Rood
4 Roods	1 Acre

Table of Motion.

60 Seconds (")	1 Minute
60 Minutes (')	1 Degree
30 Degrees (°)	1 Sign
12 Signs or 360°	the circle of the earth

Table of Time.

60 Seconds	1 Minute
60 Minutes	1 Hour
24 Hours	1 Day
7 Days	1 Week
4 Weeks	1 Month
365 Days	1 Year
366 Days	1 Leap Year
52 Weeks	1 Year
12 Calendar or	
13 Lunar Months	1 Year

Days of the Month.

Thirty days hath September,
April, June and November,
All the rest have thirty-one,
Excepting February alone, [clear
Which has but twenty-eight days
And twenty-nine in each leap year.

MULTIPLICATION TABLE.

Twice	3 times	4 times	5 times	6 times	7 times	8 times	9 times	10 times	11 times	12 times
1 are 2	1 are 3	1 are 4	1 are 5	1 are 6	1 are 7	1 are 8	1 are 9	1 .. 10	1 are 11	1 are 12
2 .. 4	2 .. 6	2 .. 8	2 .. 10	2 .. 12	2 .. 14	2 .. 16	2 .. 18	2 .. 20	2 .. 22	2 .. 24
3 .. 6	3 .. 9	3 .. 12	3 .. 15	3 .. 18	3 .. 21	3 .. 24	3 .. 27	3 .. 30	3 .. 33	3 .. 36
4 .. 8	4 .. 12	4 .. 16	4 .. 20	4 .. 24	4 .. 28	4 .. 32	4 .. 36	4 .. 40	4 .. 44	4 .. 48
5 .. 10	5 .. 15	5 .. 20	5 .. 25	5 .. 30	5 .. 35	5 .. 40	5 .. 45	5 .. 50	5 .. 55	5 .. 60
6 .. 12	6 .. 18	6 .. 24	6 .. 30	6 .. 36	6 .. 42	6 .. 48	6 .. 54	6 .. 60	6 .. 66	6 .. 72
7 .. 14	7 .. 21	7 .. 28	7 .. 35	7 .. 42	7 .. 49	7 .. 56	7 .. 63	7 .. 70	7 .. 77	7 .. 84
8 .. 16	8 .. 24	8 .. 32	8 .. 40	8 .. 48	8 .. 56	8 .. 64	8 .. 72	8 .. 80	8 .. 88	8 .. 96
9 .. 18	9 .. 27	9 .. 36	9 .. 45	9 .. 54	9 .. 63	9 .. 72	9 .. 81	9 .. 90	9 .. 99	9 .. 108
10 .. 20	10 .. 30	10 .. 40	10 .. 50	10 .. 60	10 .. 70	10 .. 80	10 .. 90	10 .. 100	10 .. 110	10 .. 120
11 .. 22	11 .. 33	11 .. 44	11 .. 55	11 .. 66	11 .. 77	11 .. 88	11 .. 99	11 .. 110	11 .. 121	11 .. 132
12 .. 24	12 .. 36	12 .. 48	12 .. 60	12 .. 72	12 .. 84	12 .. 96	12 .. 108	12 .. 120	12 .. 132	12 .. 144

