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Brazil 1989 Field Notes

L.A. Valle

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1989

Karyotype Log — Iñla do Cardoso


8 NOV 89

I found conditions a little different than at UNM, of course. There is no distilled water here. So I used what I thought was ceramic filtered H₂O from the 'kitchen'. Supposedly the H₂O here is relatively pure - it comes off the mountain where there are no people. Bruce had brought KCl in .56g/100ml packets but in 2.8g/500ml = .075M KCl. so I mixed up 500ml w/ this water. We decided to use Velban I brought rather than Colchicine. Bruce thought we should just use 1/2 of the 10mg. ~~Good~~ idea. So I cut the 10mg pellet in 1/2 - by 'eyeing' it - and added 50ml of the same H₂O. Then I was ready to ktype and followed procedures as I learned from Terry and are written in my notes.

10 NOV 89 2795, 2803, 2798 (2000 NUMBERS are BDP's) Bruce D. Patterson

I've done 3 Ktypes. We looked at them under bruce's field scope - up to 40X - and seems to be a lot of cells, w/ ~~some~~ ^{few} or none burst. split. We may try to dilute the hypotonic a bit?

2805, 2807

11 NOV Will dilute KCL 20% for today and check results. tube →  30mm marks filled to 6mm w/ H₂O + to 30 w/ KCl.

12 NOV - 2813, ^{LAV} 040, ^{SFC} 001 ← Sylvia Fazzolari

13 NOV - 2817

(4 = no Ktypes)

15 NOV 2825, 2826, 2827 2828

16 Nov # 2831, 2832

17 Nov Today we decided to Make a whole new stock solution of KCl. Made a new 2.8 ~~288~~ g/500 ml soln. (.075M). I also tried incubating one sample longer, #80P 2839, ~~Also did~~ for 35 min. Also did 2838 but for the same as before, 30 min. Also Ktyped LAV 045 & 046. Incubated 045 for 32 min & 046 for 35.

19 Nov

Today we looked at slides and saw some chromosomes on 2826 (Akodon/bryc.) this was done when I was using the 20% dilution. ~~So~~ On 046, done after new KCl mixed we saw cells, ~~but~~ w/ metaphase chromosomes, but the cells weren't broken. So, we decided to dilute the new ^{new KCl} stock solution of KCl to 25%. (1:3) and see how it goes with 047 & 048.

20 Nov

The Slide of 048 we found some decent spreads! yea I'm glad. ~~So~~ But they still need to be a little more spread, and a little more in metaphase. We could 1. Add 1 more drop Velban, 2. Let incubate longer, and 3. Make the KCl even more dilute (there were still many intact cells). We will first go with incubating

29 NOV LAV 073 LAV 074
LAV 075 LAV 076

076 was incubated for 47 minutes.
(yes, by accident)

30 NOV LAV 077, LAV 078, LAV 079, LAV 080

8 Dec AT Boruccia. Looking over
slides to see how ktypes are going
found some OK some not so OK.

LAV 048 - good

(30) BDP 2865 - good spreads

(31) BDP 2862 - spread

(29) BDP 2864 - none ^{seen} but circles w/ dots - unbroken
cells?

(32) LAV 052 - ~~good~~ spreads

(33) BDP 2870 - none seen

(34) LAV 053 - none seen, lots of ? unbroken
cells (circles)? and debris

(35) BDP 2873 - spread

(36) LAV 054 - what may be a spread but
very bunched up, a couple more of these.
Then something that looked like a ^{large} spread
with LOTS of tiny arms, not x's or they're too
small to be distinguished as x's.

One other spread long and drawn out
single squiggly lines - not x's, or few x's.

(37) BDP 2877 Nothing but dots! shit. They look
too uniform to be cells but more like water
streaks. hardly any debris or other gunk.

BDP 2887 - what looks like a few stray
chromosomes not in a spread-type formation
and not very many

Also ktyped BDP 2981 and SFC 005

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Karyotype Log

longer. 40 min - BDP 2857

21 NOV

Still the same procedure so far
- ↑ incubation time to 40 min. Today
did 2860, LAV 049, SFC 002, BDP 2862, BDP
2864, BDP 2865
↑ spread

22 NOV

LAV 052, BDP 2870, LAV 054, BDP 2877
BDP 2873 LAV 053, BDP 287

23 NOV

LAV 055 BDP 2887

24 NOV

LAV 059 BDP 2895
LAV 060 BDP 2896

If there is a discrepancy here 060 and 2896
could possibly be mixed up. (But I don't think
so!)

25 NOV

LAV 062 BDP 2912
LAV 063 LAV 064

26 NOV

LAV 066 LAV 067

on 066 I spilled about $\frac{1}{4}$ of the incubating
sample but there was still a reason-
able sized pellet - plenty enough. ~~XXXXXX~~

LAV 068 BDP 2924

2924 didn't flame when I put a match to
it.??

28 NOV

LAV 069
LAV 071 LAV 070
LAV 072

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9 Nov 89 Ilha do Cardoso -

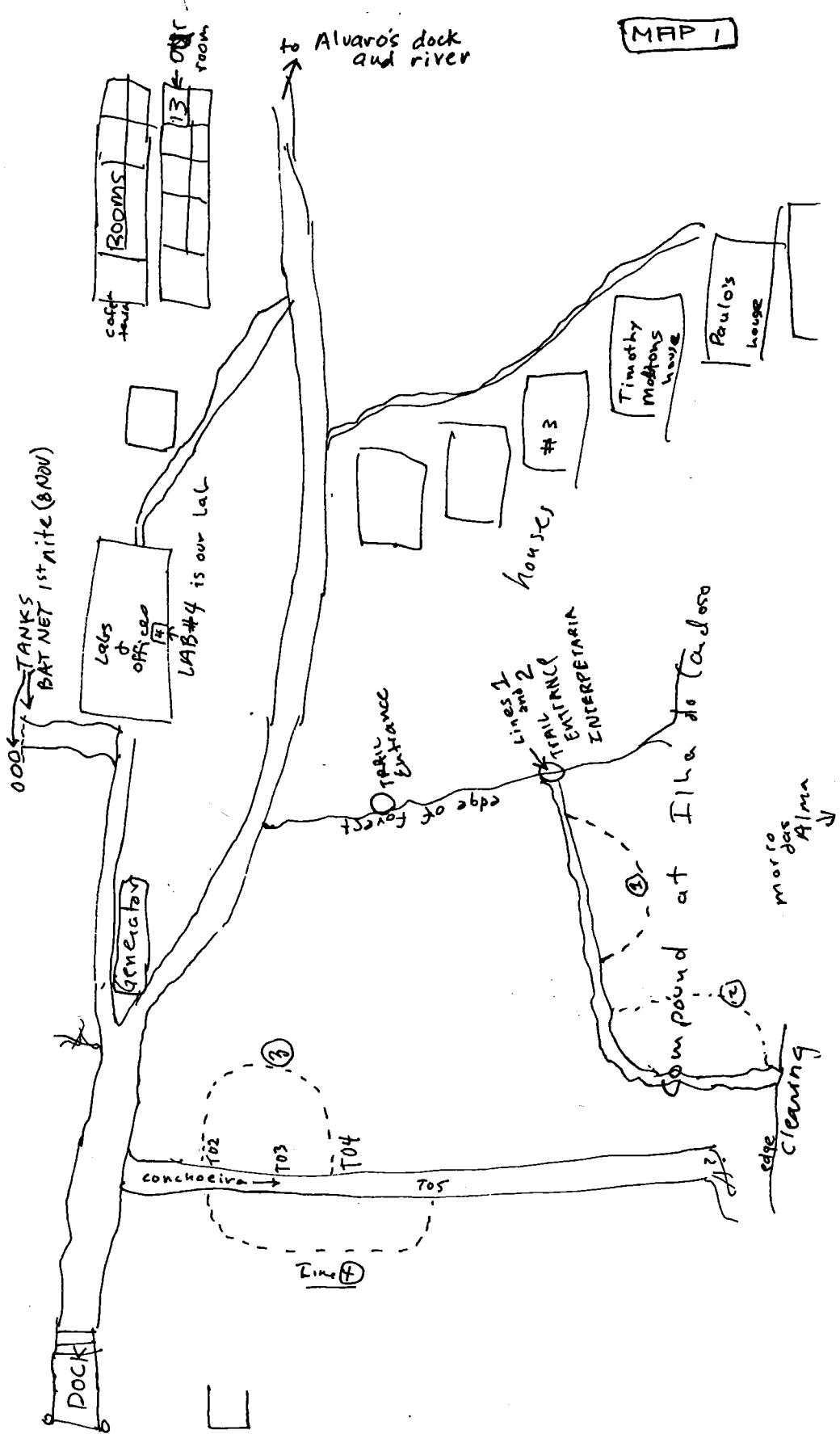
Arrived 3 Nov in São Paulo. Stayed at Hotel Terminus 4 days prior to leaving for the island. Saturday (4th Nov) ~~was~~ ~~to~~ Bruce and I met with Paulo E. Vanzolini, the person with whom Bruce coordinated the trip. Went to lunch and talked about getting on the road - what materials we needed, what we planned to do, etc. We met Vanzolini at the Museu Ipiranga (Museu de Zoologia) on Avenida de Nazaré. After lunch we returned to the museum and looked through the collection (at Vanzolini's invitation) ~~and~~ to familiarize ourselves with some of the critters we were likely to catch. Sat. eve was spent with Sylvia Fazzolari and her husband Pauline. Sylvia is Vanzo's graduate student who will be working with us. She speaks very good English and has been extremely helpful in many instances. ~~Later~~ Upon returning to the hotel I tried to call Bill - a harrowing experience due to not knowing diddly Portuguese - no luck but a somewhat English speaking porter, Ricardo, helped alot. Sundays (5th Nov) ~~the~~ the city closes down, except bars and restaurants. We walked around the Praça de República mercado and I suppressed the impulse to

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buy anything. Back at the hotel we spent a lazy afternoon reading and doing nothing. Monday morning (6 Nov) Bill called (yca) and we talked ~1/2 hour - Bruce left for the Museum during that time. Shortly after I followed (bus 4634, 4612 or M. Estela 4631). THAT was interesting. ~~But~~ But, speaking no portuguese among 16 million people I made it! Upon arrival I learned that Sylvia was working on our list, tracking things down, and we would leave the following morning. The rest of the morning and afternoon was spent in the collection - same as Saturday afternoon. ~~Saturday~~ ^{Monday} evening we finished writing letters and started getting psyched for the field. Tue (7 Nov) we awoke, had our complimentary breakfast (^{fresh} great coffee and fruit) and waited for Sylvia to call. The driver hadn't shown so Sylvia picked us up at the hotel herself at ~1130A. At the Museum we waited for the Cãmbi, went to lunch across the street, (yom-chuvroscaría) and finally left at ~200P. South toward Ilha do Cardoso. We arrived at ^{a dock} ~~Cananeia~~ at 630P and caught the ferry across ^{Mar do Itapitangui} to ^{ilha de} Cananeia. The ferry at Cananeia across to Cardoso was no longer running that day so we spent the night at Cananeia. Arrangements had been made already ~~to~~ by Vera, the woman "in charge"

MAP 1



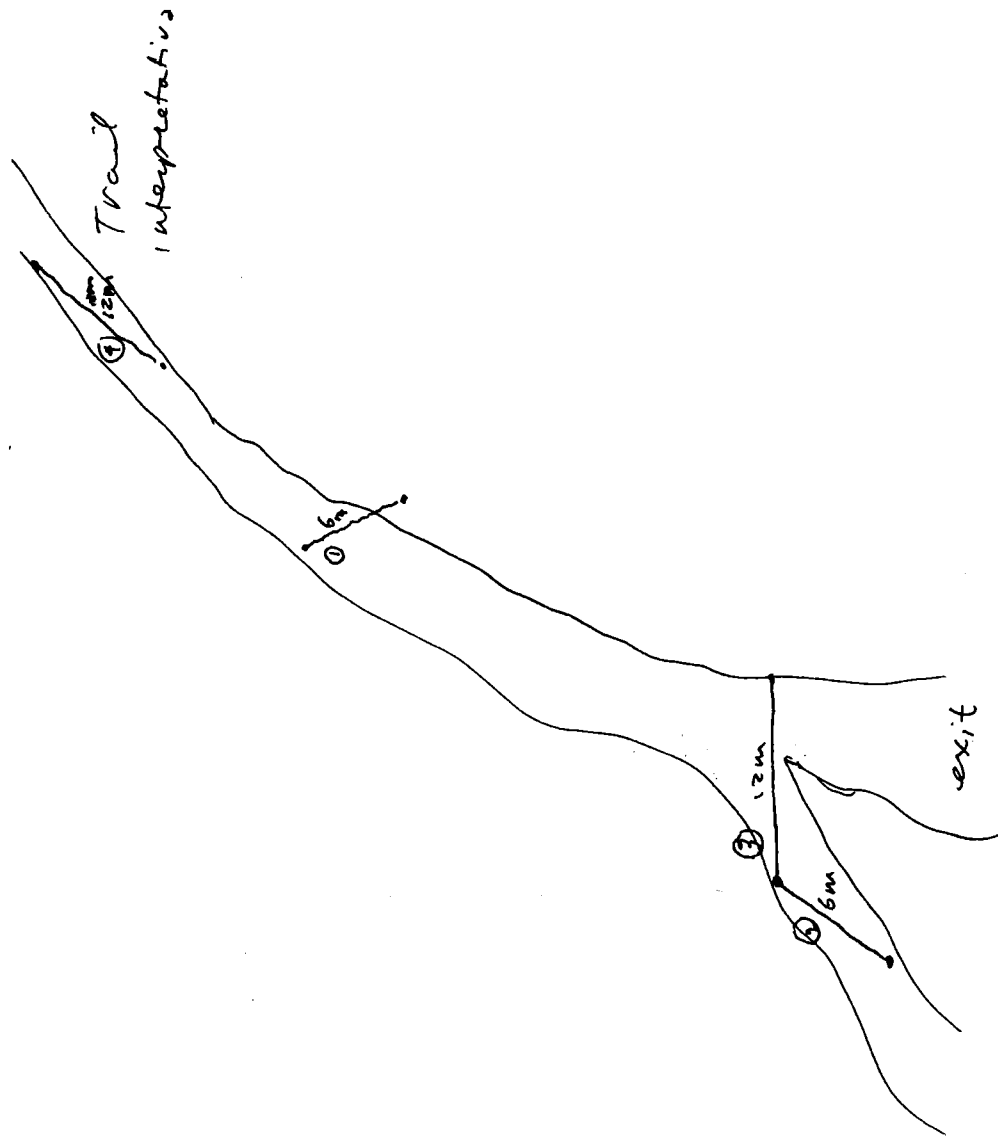
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Ilha do Cardoso

of the island. ~~Thursday~~^{Wed} morning (8 Nov) we crossed Baía do Trapaná to Ilha do Cardoso. After settling ourselves in we had lunch visited at Paulos house (another student of Univ. de São Paulo? who is also studying zoology) and then ~~went out to~~^{walked with Sylvia} to the boat. She is returning to São Paulo till Saturday to attend classes. We then proceeded to set a few quick lines & nets. Set were 24 Rat traps, 20 m.specs, and 1 ¹²m mist net. 3 lines of traps were set. ^(see map opposite)
line #1 consisted of 7 tomahawks, 7 m.spec. & 7 rats placed in alternation in dry ~~restinga~~^{restinga}, ground covered w/ bromeliads along "interpretive trail".
line #2 13 m.sp. 5 rat traps set in mostly restinga along some trail ^(at end) bordering dry sandy arroyos. Line #3 3 tomah. & 12 rat traps set in moist restinga along powerline to cachoeira starting at pole T04 → T02 (see map). Bait was oat w/ banana and banana for live traps. Bat not at top of 10m ^{road} as was mist-rain. running up 20m hill by lab. Wind was somewhat prevalent.

9 NOV - AM Run trap lines. #1 produced 4 four animals. Two were in live traps, ~~two~~ two in museum specials. One of the live ones looks microtenu to me - perhaps Oryzomys? The other live one seems very arboreal - it hangs out in the top of the cage. ~~##~~
Line #2 = Nothing, Line #3 produced one ^{mouse} ~~cat~~ in a mus. spec. No bats were caught. All animals have yet to be identified. After breakfast we caught up on field notes and started prepping and am now getting ready to karyotype. Bat net produced a hummingbird. Line #1 - one



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Ilha do Cardoso

arboreal mouse live trapped (Delomys) + 3 terrest. mice (Oryzomys sp.), one in live 2 in mus. sp. [←]one of these in very thick bromeliads. Line #2 empty lots of bait still left. Line 3 Delomys in rat trap. After lunch Karyotyped and ~~prepped~~ prepped until ~6 when we went to rebait traps and set a new net on the "interpretativa" trail. checked net at 10:00 P and 1200 P - nothing.

10 Nov 6:30 A Rm trap lines. Line 1: oryzomys in museum spec. Line 2 ^{nothing} Line 3 - 2 Delomys in rat traps ^{bat net} ~~bat net~~ brought us one Artibeus. A 12x12x18" live trap found the previous evening (Paulos?) was baited by us w/ banana but produced nothing. Breakfast @ ^{7:45} ~~7:45~~ and to the lab to work up some specimens.

Ecto parasites - immobilize w/ ether, then into 70% methanol w/ paintbrush.

Ktyped Delomys and Artibeus. At ~8:00 Took 24 m.s. and 12 rat traps and went out. Set Line #4 on the other side of the ^{conchoira} road Alternating rat, m.s., m.s., rat... baited w/ same - catmeal + smashed bananas. Next ~~we~~ I rebaited Line 3 while Bruce went back for bananas. We set a net at the exit of Trilha (Trail) Interpretativa and decided to set 3 more ^{on the trail} nets, near the same place. (see map). Dinner @ 7:30. ^{Evening} ~~Evening~~ is calm and CLEAR (yea!) - no wind. At ~9:00 it seems the clouds may blow back over us. Bruce made a net run at ~9:20 and decided we wouldn't run the nets at midnight. It's a Almost full moon and very bright out.

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11 Nov 89

6:10 AM out to run traps: Line 1 produced a *Rattus*? ^{in a rat trap} largest spec. yet - and another *Oryzomys* sp in a live trap. Line 2 = 1 *Delomys* in a rat trap. Line 3 + 4 = nothing. Bat nets produced 2 *Antibes* - *jamaicensis* and *lituratus*. Breakfast and to the lab. Will dilute KCl 20% to see if Ktypes improve. Sylvia showed up at 5:00 PM after we had worked ~~up~~ ^{up} all the animals. K-typed were the *jamaicensis* ~~lituratus~~ and the live mouse. All others were prepped or liquidified (formol 10%). After Sylvia arrived we went to rebait and pull down nets. I did lines 3+4 w/ Sylvia, Bruce did 1+2. ^{Dinner at 7:00} ~~We checked~~ we checked the nets at ~10:30 and found a *Glossophaga*. I will Ktype it tomorrow.

12 Nov 89

6:00A checked traps. Lines 1+2 nothing. Line 3 had a *Rattus*, *Delomys* and _____ all in ~~the~~ ^{Rat} traps. Line 4 = nothing. Nets held ~~three~~ ^{three} *Antibes* ~~and~~ *lituratus*. breakfast at 7:30 and to the lab. I diluted the KCl again ~~to~~ ^{by} 20% water & will do *Gloss* today. ~~Had~~

Had another relaxing afternoon - went for a swim at the beach. Rebaited traps at 5:30P and had dinner at 7:00. I checked nets at 9:30 - nothing.

13 Nov. 89

6:00A - Line 1+2 nothing, Line 3 ^{one} nothing. Line 4 2 *Delomys*, 1 mus. spec, & ~~and~~ ^{one} Rat trap. breakfast and to the lab. Oh yeah one more

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Glossophaga was caught. I will ktype it today.
400P Bruce went with Paulo to bait Paulos trap line. He has 100 various traps, all live: 30 shermans and the rest wire live traps. They are set big, small, big, small for the most part. They are set up a trail called Morro Das Almas that originates by the clearing by our ~~to~~ ~~sets~~ ²⁺³ ~~sets~~. I baited lines 1-4 and let down the nets. Dinner @ 7:00. Checked nets at 930- nothing!

14 Nov 89

600. Lines 1²⁺³ and Nets = nothing, lines 4 = ~~nothing~~ ^{Delomys} ~~1 Delomys~~ ~~2 Delomys~~ We had breakfast before running Paulos line. On his line we got 1 Rattus (#84) 1 Delomys (#92) + 1 Oryzomys (#93). ~~Nothing~~ ^{All were} ~~live~~ ^{kill'd} on the spot. Thus there is nothing to Karyotype. We will process these ^{now} ~~later~~ and head across the inlet to Canoeira for some supplies at 2:30. Nice trip. Great ice cream. 630 I set out to bait lines 1, 3, 4, + open nets.

15 Nov 89

600A Checked 1234 nets. 1 Artibeus lituratus. Line 4 had one juvenile Delomys in a ~~net~~ ^{museum} special. All others empty. Bruce picked up line 2 - it has produced nothing the whole time. After breakfast we checked

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Paulo's Line up Morro Das Almas. We got
1 ^{shuman-peanut} Delomys (#3) one ^{to tomahawk} Oryzomys (#67) and
as we were coming back we had
captured a "Oryzomys" in #35! at 11AM!
We also caught another Teiidae lizard in
a tomahawk live trap. By that time it
was almost lunch so we took off till ~1:00PM
I took a long nap - I ~~got~~ managed to get a
small case of Monterumas Revenge. Then
to the lab to process specs. Worked till 6:00
then baited traps. I baited lines 1,3,4
and let down nets 1-4. Bruce put up
three new 6m bat nets up the hill
btwn the generator and the lab (where
we put one that first nite). I went to
bed right after dinner - my stomach not
so hot. Bruce checked the nets at 9:30
and at 10:45 - nothing.

16 Nov 89

6AM - lines 1 3 and nets 1-4 nothing.
Line 4 = one Delomys in a museum spec.
The new nets produced nothing. After
breakfast we walked the Morro das Almas
Line and got: #11 Delomys #35 Oryzomys
#44 Delomys #99 something new - it's Rattus
size but with broader jaws ~~and~~ bicolored
tail and a white belly. Perhaps a spiny
rat - proechimys? the pelage seemed to
possibly have spines. We are taking
the rest of the morning off and will

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process in the afternoon. Worked in lab till 530 or 600 then went to bait traplines 134 + lower nets. I seem to be missing 2 mus. specials on line 4, one near the beginning and the last one of the line. They just "disappeared". Will keep an eye out.

17 Nov 89

600AM checked lines 134, + nets.

One Oryzomys + one Delomys in museum

Specs in line 4 and nothing else.

~8AM ^{Took down nets on Interpretativa trail} ran The Morro das Almas line. trail

Got: # 47 Rattus # 70 Delomys

97 Proechimys, # 33 dead Delomys,

52 Rattus - nearly dead so we finished it off.

At the top of Morro das Almas ~~cave~~ ^{trail} is

a small cave, about 2m at opening and maybe 30 m deep. ~~Bruce covered the~~ ^{We covered the} mouth with

a ^{6m} net and Bruce crawled in but didn't succeed in flushing any bats into the net. Then I tried and on my belly, with a stick to reach further in to the end of the cave I was able to flush 4 bats out and we both caught them - in the net or by hand against the wall. Two may be Micronycteris, one carollia and one glossophaga. Interesting roosting association. Then back down the trail to lunch and the lab at 1:00. worked all afternoon and evening

searotyping and prepping. Went to bed at 1030.

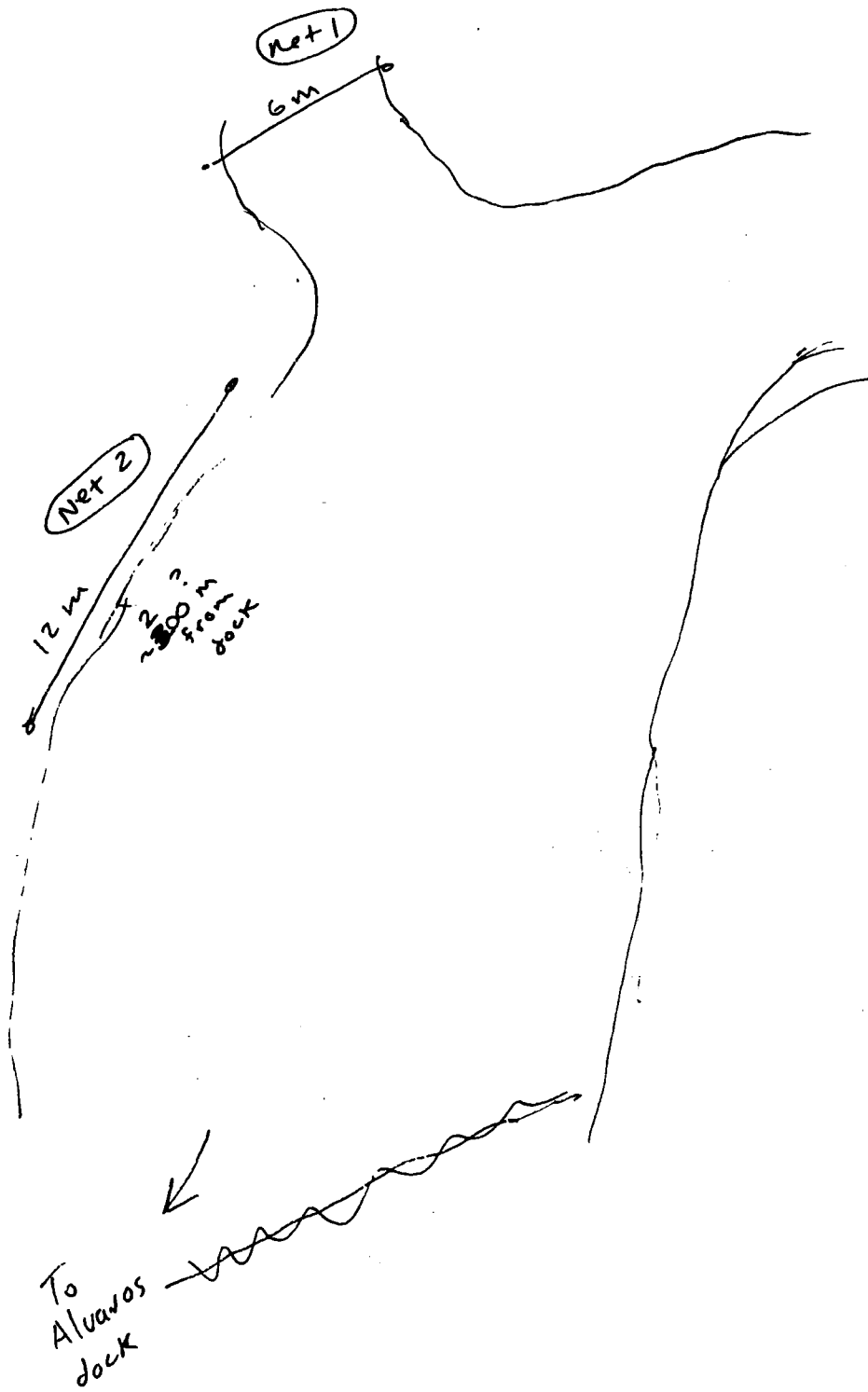
18 Nov

700 breakfast. We didn't bait lines 13+4 last nite so we got to sleep in till breakfast. Then up Morro das Almas. Caught were: #37 Rattus Norv. #41 Delomys? #76 Rattus #77 Delomys? #92 Akodon? or what we've been calling Oryzomys. ^{mis} one more micromys teris out of the cave. We didn't put up a net and I actually flushed about 6 bats so we know there are more than we thought in there. Back down the trail and we took a break before lunch. At the lab ~~we~~ Bruce decided a trip into town (Cananeia) was in order so we brushed the mice and pulled tissue and alcoholated them. Sylvia arrives today. We may be moving up to the mountain tomorrow or Monday - probably Monday at the rate things are going.

19 Nov

6 AM picked up lines 13, 14. Then to breakfast and after that up Morro das Almas. We decided to pick up the shermans since we will be leaving tomorrow. We'll pick up the rest tomorrow. Today we caught 7 animals: trap #6 Delomys? #35 R. norvegicus #40 Akodon cursor #55 Akodon #60 Akodon/oryz. #67

MAP 3



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Alcodon # 87 Alcodon. No bats from the cave. We came back down picking up the shermans and the tomahawks with animals in them. We decided to work in lab through the morning and take a break in the afternoon.

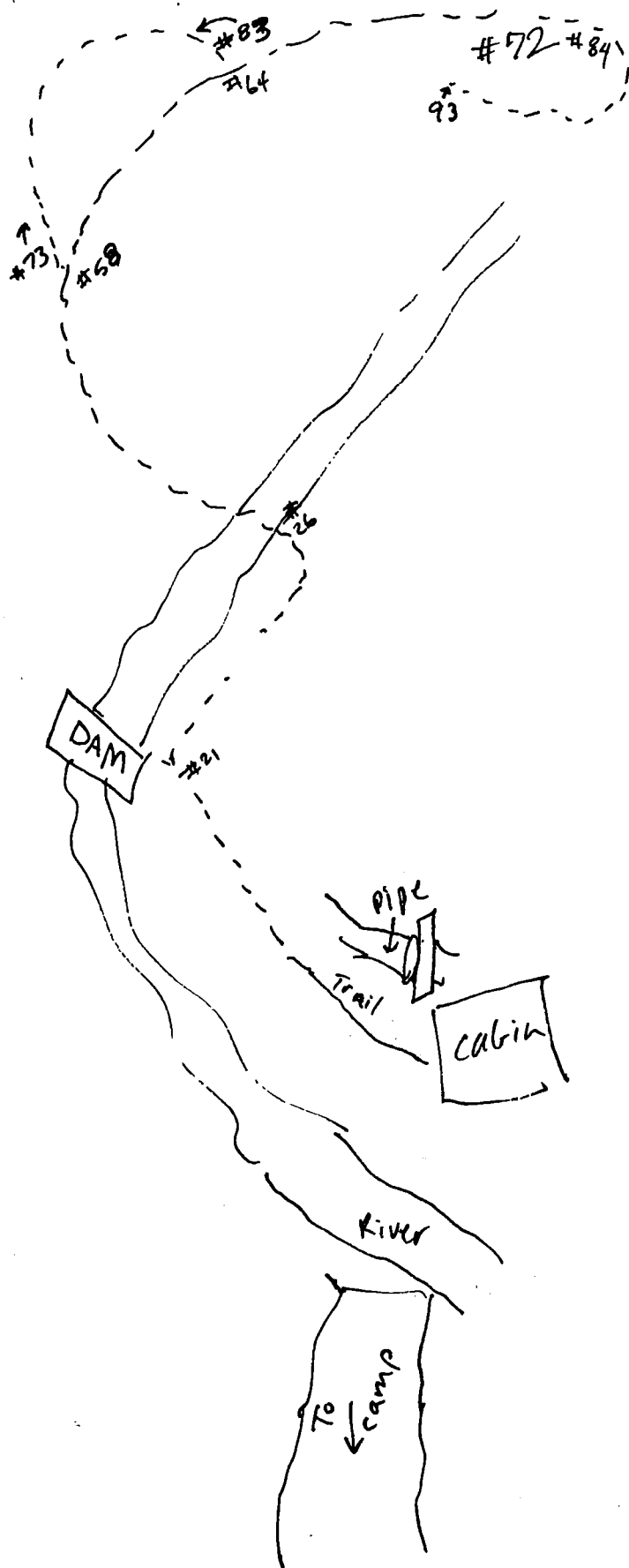
We decided to set a couple of nets up the river a little from the compound, off the dock of Alvaro's boats. ^{see map 1}
^{see map 3} We set one 6m on a little canal about 12 m off the river, And another a little closer to the dock on the left bank. We checked them around 9:00 and after taking an unintentional dip from a wobbly canoe found nothing.

20 Nov

600A checked nets (no swimming this time) and found 1 Artibeus in net 2 (the 12m). Nothing in 1. After breakfast we headed up Morro das Almas to bring down the rest of the traps in preparation for heading up to the Cachoeira.

We caught one Akodon in a tomahawk (# 41) and that's it. Brought down 38 tomahawks. We have a total of 62. We also have 30 shermans and 92 mus. specs, 36 Rat traps, and 10 McAbees. We will try to head up to the Cachoeira this evening and set some traps. Now (1030AM) we are processing the two

MAP 4



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animals we have.

At 200P - we headed up the ^{by Tractor} Cachoeira road to the base of the mountain. There is a small cabin there where we stored our traps etc. We set 72 traps Alternating Sherman-Tomahawk up a trail that Alvaro helped clear. At first the trail parallels the pipe. At trap # 21 we reach the dam and continue on the right of the river. At ~ trap 29 or so we cross the river and continue sharply uphill. Then the trail levels and even goes downhill some by the time we reach # 72. (see map #4) Bait was banana for tomahawks and wonderbait (oatmeal, banana, & peanut butter mashed together) for shermans. finished at ~630. Back down to dinner & bed.

21 Nov

7:00 breakfast and off to Cachoeira at 7:30. Our traps caught: #6 ^{(Tom) Phyllotis} ~~eximius~~
#11 Akodon #15 Oryzomys #16T Proechimys
#20T Oryzomys (AKA Oecomys) #25 Akodon cursor
#29 ~~_____~~ # ~~31~~ ~~_____~~
#46T Oryzomys (AKA Oecomys) #53 Oryzomys
#59 Akodon . It had rained the night before, and the trail was somewhat muddy, but not bad. Finished

#53
#63

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trap #6 is Chironectes, not Philanter.
at 11:00. Down to lunch and to the
lab at 1:00. Worked till 6:00, dinner
at 7:00 and back to lab till 9:45.

22 Nov

630 breakfast and up the road
to the Cachoeira. It looked to be
a nice day and it hadn't rained
the night before. Air catches are
as follows #4 ^{Kaw} Tomahawk Proechimys #10 Proechimys
#21 Akodon cursor #25 Akodon cursor #7
Akodon #30 T. Oryzomys #30 B. Oryzomys
40 T. Oryzomys 51 Oryzomys 55 Oryzomys
57 Proechimys 73 T. Oryzomys 69 T. Proechimys
72 T. Oryzomys 65 T. Didelphis albiventris
79 T. Proechimys 80 T. Oryzomys
70 T. D. albiventris. We also set 10 more
Tomahawks at the end of the line (#72)
starting w/ 89. (^{see} map 4) So we now have
30 shermans + 63 Tomahawks. Finished
at 11:30 and back down to lunch and
to the lab at 1:30. Finished at 10:00 PM.

23 Nov

630 up and to breakfast, and off
on our tractor ride to the Cachoeira.
Today we got ^{two} new Genus. Sciurus
and Monodelphis; Trap success fell
a little from yesterday - only 14
animals. No rain the night
before and today was clear.
The traps we caught animals in

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are as follows: 2T, 4T, 12T, 13^{sherman}5, 17^{sherman}5, 21s, 22^{sherman}5T, 24T, 28T, 47^{sherman}5, 65T, 68T, 71T, and 76T. The line we set on the second day (73-83) didn't produce as much as the day before, and the third line⁽⁸⁴⁻⁹³⁾ didn't produce at all. Also up there in the cabin I saw six bats (Trachops?) flying around. On the day we walked up there and caught one by hand we only saw 2 or 3. After lunch we headed to the lab. Worked till 6:00 or so, dinner at 7, and back to the lab again till 9:45.

24 Nov

Our trap success fell a little more today, though we caught yet another new Genus - ~~Dipodops~~ Philander opposum. It had 7 young attached in the pouch. Nothing else too exciting. Only 10 animals today: Trap #5 6T, 10T, 20T, 24T, 26T, 28T, 29S, 30Bs, 84T, 79T. We finished at ~ 11:00. Had to rebait lots of Shermans today, but few tomahawks. To the lab at 1:00. It rained heavily at ~ 3 o'clock and drizzled after that. Now (6:30) it's overcast and windy, but not raining.

25 Nov

17 animals today - but No new Genus! It ^{is} the day after a rain

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-It seems like trap success may increase slightly after a rain. Animals were caught in

We had to get Tim to drive us up and back because no one works here on the weekends. He had to go up and fix the water pipes anyway. There was ~~no~~ water for a few days due to the heavy rain clogging the pipe up on the mountain. It was back on by ~3000 worked till 7:30 or so, And went to a 'birthday' party at Tim's - nice change of pace.

26 Nov SUN

Trap success down a little bit - 15 animals I think were still hitting about 15% success after 6 days up there. Nothing new and exciting. But I noticed we got a lot more *Oryzomys* ^{yesterday and} today whereas we got zero the day before the rain. It seems as if the rain brought them out? Things are already drying up around there.

Animals caught in traps 7s, 10T, 16T, 24T, 30T, 31s, 39s, 40T, 53s, 60T, 61s, 62T, 90T, 76T, 73T. We ~~fixed~~ ^{did} a lot of specimens as skeleton only. I karyotyped two and put up ~~one~~ one skin. We made an early afternoon of it because today we go to Cananea

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to meet Sylvia. We didn't go to Cananeia after all - the water was too choppy for the small boat. So we came back to the lab and skinned a few more. Sylvia arrived at ~630 by the big boat (she brought mail, Yea!) and went to dinner.

Mon 27 Nov

I decided to take the day off and see if I can't get this sore throat to clean up. Went to Cananeia on my own for medicine and "supplies".
~~by boat~~

28 Nov

Sylvia and I checked the Cachoeira while Bruce took altimeter readings on Morro das Almas. Trapped were 12 animals - nothing new and exciting. It ~~had~~ rained last nite and was ~~cloud~~ overcast and gray on our way up, and started raining during our time up there. The rain slacked off after we finished and it's pretty wet. Still overcast down here at camp though. To the lab at 1:30 to begin the days processing.

29 NOV Sylvia and I checked the traps again while Bruce prepped two *Proechimys* left from last

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night. ~~It~~ It had been raining for the second day so it was sopping wet up there. And the rain didn't look to let up, it was still going, but lightly. We caught ¹² animals including a huge *Didelphis* manup. in a ~~bat~~ ^{tommy} (#63) and another little *Metachirus* (a littermate from the one the previous day?) And something new for the locality: a *Rattus*? Bruce thinks it is. It looks different from the ones in the restings - I'm not sure how... less long and skinny and cleaner. It did have a bot fly just like all the *Oryzomys* from the Cachoeira and it was caught in one of the ~~in~~ lower traps (22). Worked at the lab the rest of the day.

30 NOV

Finally a clear day. Mostly, We got the infamous long awaited *Marmosa* - another new Genus. And another *Metachirus* juvenile. 13 animals in all - the rest *Oryzomys*, *Akodon*, & *Proechimys*. The trail is drying out a little, not so slippery. The sun is out. Yesterday we got no *Akodon*, today we got two. They don't seem to like the rain as much as the *Oryzomys* do.

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1 DEC 6:00 - had to get up early and finish a Mammal - we waited to see if Paulo ^{would come} ~~wanted~~ to photograph it - he didn't - after breakfast and a late start (waiting for Lobo, our trusty tractor driver) we hit the mountain. Trip success dropped a little more - 8 mammals. 2 Didelphids, 2 Oryzomys, 4 Proechimys. No Akodon. Weather is still intermittent clouds and showers, but still some sunshine. We took the afternoon off for a trip to Cananea ("supplies") and alcoholated our specimens. And to sleep at 10.

2 Dec Sat

6:30 to breakfast and Lobo was virtually on time. We had to fiddle with the tractor some - remove ^{lawn mower} parts - and got another late start. No problem, we're still finishing at ~11:30. We decided to remove 20 tomahawks, start breaking down the line. We plan to leave the island Tuesday. We removed our 2 accessory lines, 73-93. ~~It~~ There was a downpour of rain when we arrived at the cabin, and one during our trap check - otherwise it was clear with intermittent clouds. The rains have made the steep parts of the trail pretty hazardous and by the time we leave it'll be getting really nasty (good time to leave as any!) We caught 8 animals

Journal

LA Valle

1989

today: 6 Proechimys (!) one Oryzomys and one Akodon. We took the afternoon to get some sun. MUCH NEEDED, but in my case I overdid it and now I feel like a french fry. ~~And~~ The animals we did as skel only before dinner. The break in routine yesterday and today was much needed and greatly appreciated.

3 Dec Sun

Trap success stayed the same as yesterday despite our removal of 20 tomahawks. Proechimys, Oryzomys, One Akodon. We got a late start due to not being able to find good old Lobo to drive the tractor. He finally appears and we get to the mountain at 9:00. Only two hours to check the 72. The weather is back to sunny skies and the temp is rising. Nice out. Eight animals today, as mentioned above. Sylvia arrives today, hopefully bringing mail!

4 Dec Mon

We left early today because ALL-ARO had to use the tractor for something else. Got ~~to~~ ^{to} the mountain at 7:30. We picked up the remainder of our traps today and only trapped ~~two~~ three animals, all Proechimys. I went to the top with my backpack to pick up the last ten

Journal

L.A. Valle
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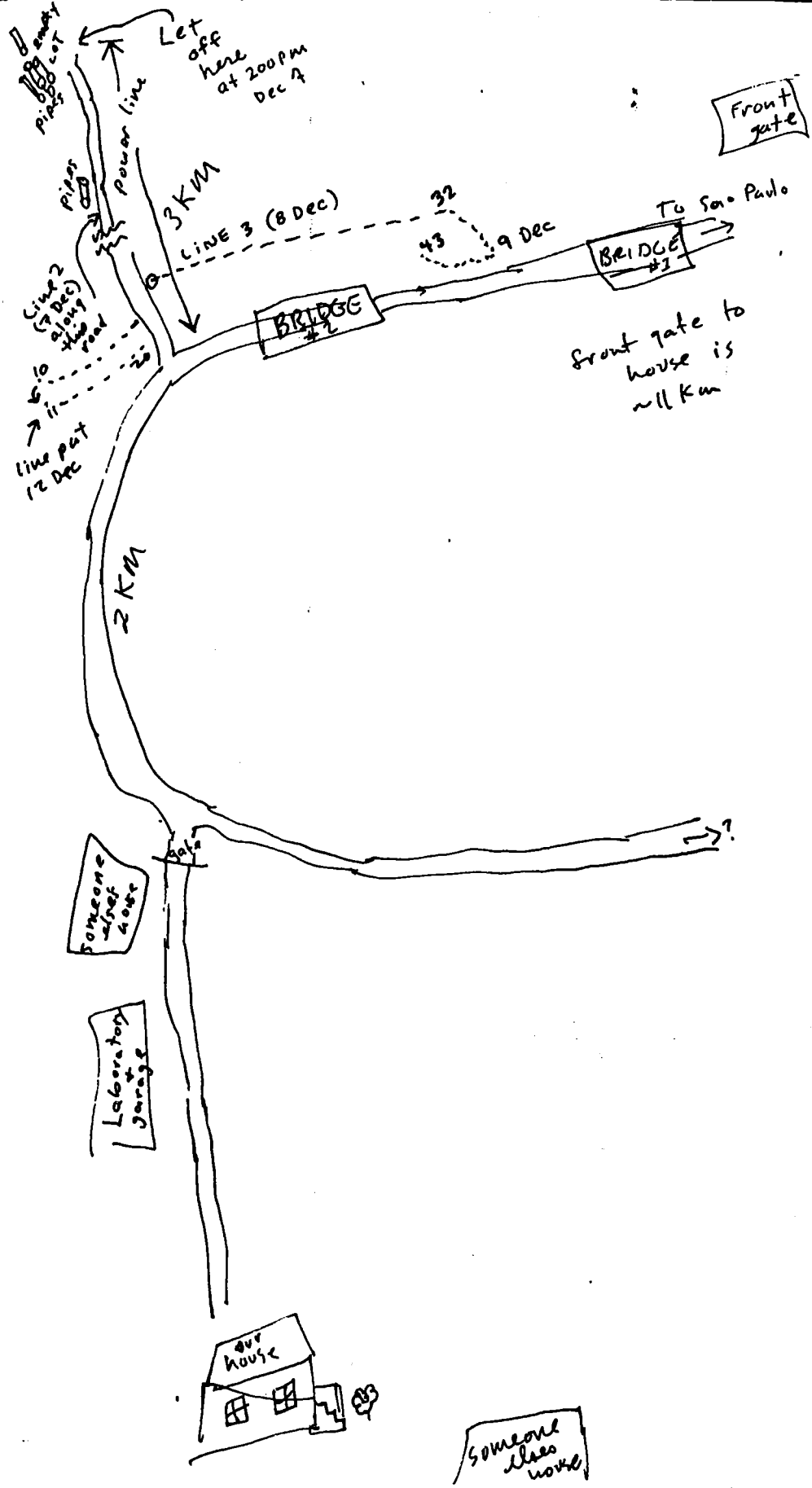
tomahawks. Bruce went to #60 and turned around picking up Shermans and tomahawks alternatively. Sylvia turned around at #32 and did the same. Got back early, 10:30, so had time for some R&R before lunch. We only have 3 animals to prep. We can't decide if they should be skins or alc/skel because we leave tomorrow and all our skins are virtually dry. We could probably think of some way to transport them wet without damage.

Tues Dec 5

We decided to get off the island early - took the 9:00AM boat after breakfast, pictures, and goodbyes. Then Cananeia, the next ferry and to the mainland at 1130. Back to São Paulo by 530. (Stopped for lunch). Unloaded specimens, formalyn tank, skeletons, and after setting out specimens Bruce and I headed to the Terminus Hotel. Phone calls (expensive ones) and to sleep.

Wed Dec 6

Sylvia calls at 10:00AM to inform us that we can't leave for Borocéia until Thurs. morning because Chica^{Do Val}, the head director of Borocéia, cannot leave until then. We exchange some



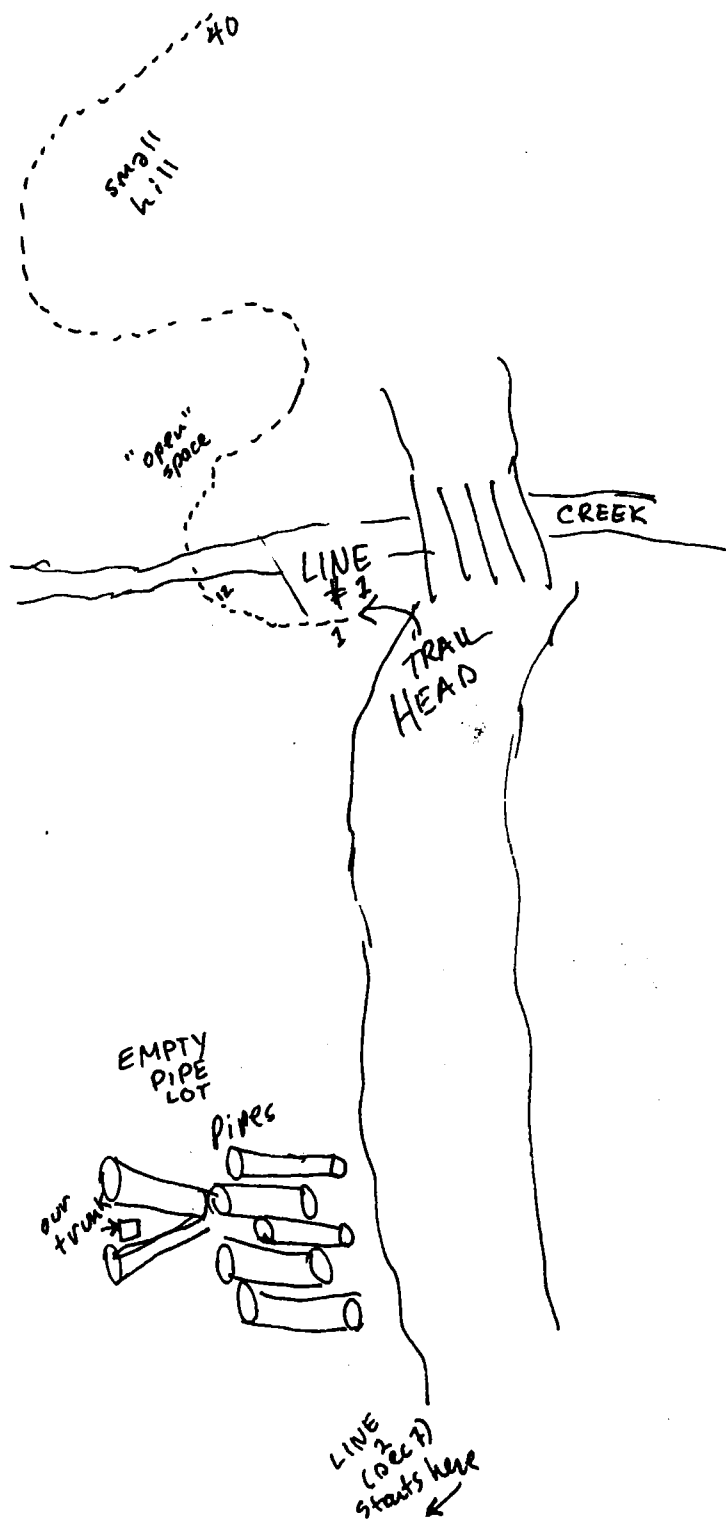
Journal
Brasil; Sao Paulo, Borocera

C.A. Valle
1989

dollars across the street then head to the museum where we spend the day, or actually... Bruce spends most the day IDing specimens and filling out tags. I go for a run. Much needed and nice. We ~~start~~ ^{are} ~~back~~ ^{on} our way back to the hotel at 630 PM. No trouble falling asleep tonite.

7 Dec

7:45 Sylvia picks us up at the Terminus, to the museum for our gear and the Combi, and headed for Borocera at 840 A. Stop at a town 1/2 way for groceries and Arrive at the house at 12:30 P. It is a beautiful place. The house is wonderful, too. Boy, are we really roughing it. After lunch Chica and the driver depart after leaving us ~~with~~ at a spot down the road to set traps. Bruce has ideas of *Oryzomys* at a "grassy" location. We take 40 tomatoes and 30 shermans, bananas and corn on the cob (shermans). See map for where we were let off. Map continued next page. We set line #1 beyond where we were let off before the next bridge (#3) on a trail that is supposedly goes to the ocean after ~12 km. This area started out as thick forest. It almost



looked like the ^{good} (old) restinga on the island (Candoso). Not as many lianas, but they're still there. We reached a small stream, crossed it, and at about trap # 8-10 we found ourselves out of the ~~clear~~ forest and into a "clearing", low tree/shrubs and lots of grass. ~~Then~~ A very abrupt change. We circled around the perimeter of the grassy area until our traps were all set. It ended up to be sort of a loop. We then went back to where we'd been dropped off, got ^{some of} the remaining traps - 20 tomahawks and 10 shermans - and placed them along the road as we walked back toward the house. After finishing the traps (alternating two tomahawks, 1 sherman) it was about 6:30 and we reached the house by 7:00. Cooked dinner and hit the sack.

Our equipment - traps, Karyo kit, etc is in the lab down the road to be set up tomorrow. It's a nice looking lab - big room, used to be a garage I think, tile counters (easy cleanup and to see ectos).

The ~~day~~ ^{weather} since we got close

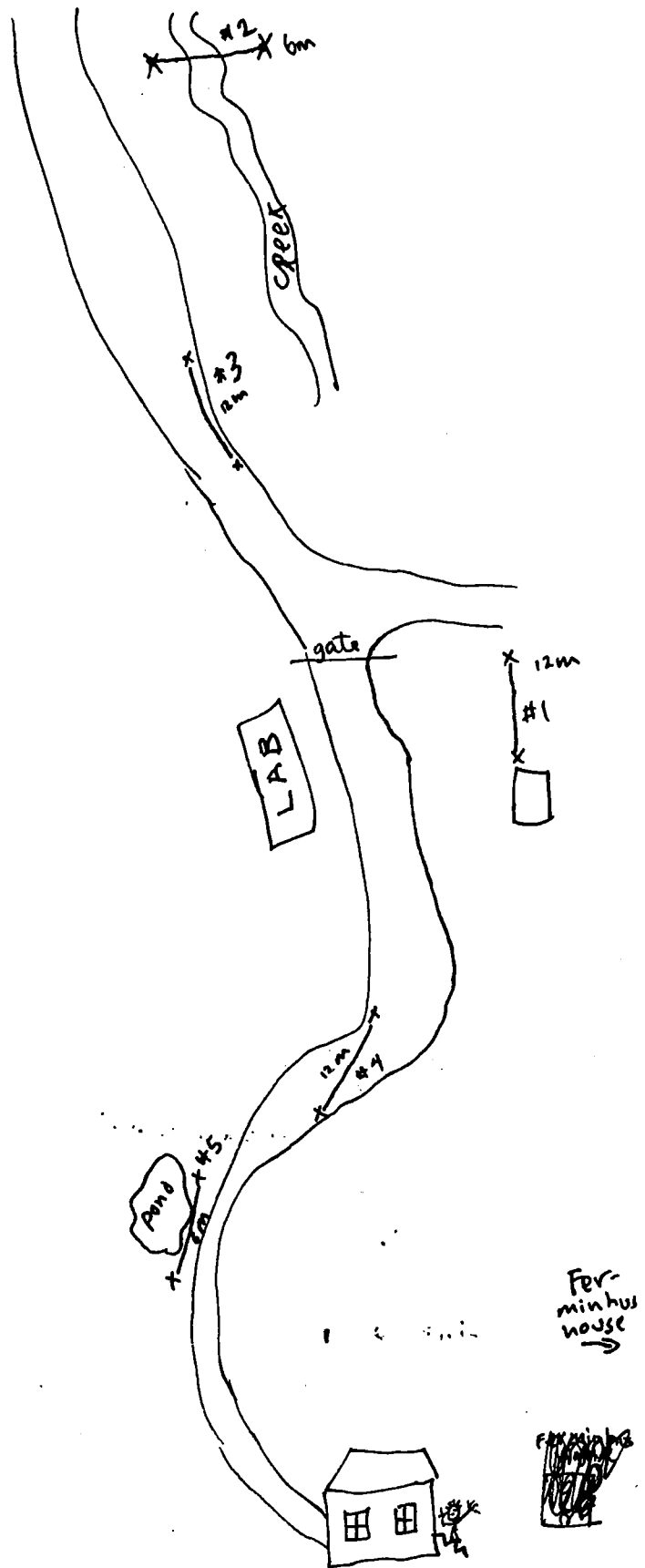
L. A. Valle
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Journal

to Borocéia has been cloud covered completely - I mean gray skies - all afternoon. Then tonight it cleared up - stars and all are showing. The MOON is getting pretty full - due to be complete on the 12th. This is a bummer for ~~the~~ trapping.

8 Dec

6:00 up for coffee and down the 5km to our lines. The morning is clear - and beautiful. ~~As~~ We picked up line 2 on our way out to line 1. ~~At the~~ There we got 2 mice near the beginning of the line and in shermans: 1 Digoryzomys and 1 Akodon. Line two, which we left in place, produced only 1 ^{animal} Didelphid - perhaps Philander or Metachirus. We returned to our starting point, the empty pipe lot where our trunk and traps were left and tried to decide where to lay the next line. We started walking back to look for a trail and found one about 2 mile from the bridge/fork. We set 22 traps, 2 tommies: 1 sherman. This is a very nice trail - big enough to not have to chop through, but not automobile size, and the trees still meet over the top. We shall look further down (past our last trap) tomorrow to see if we



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L.A. Valle

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want to set more down that way. Back to the house at 1:00, lunch, and to the lab to process our 3 animals. I X-rayed the mice. We set bat nets in the evening. 3 12m and 2 6m. #1 ^(12m) near an old house across from the lab, #2 down the road towards our traps about 1/2 mile off to the right over the stream, #3 on the ^{side of the} road on the way back, #4 next to a semi-stagnant pond, #5 partially across the road on the driveway to the house (See map opposite) Finished ~ 7:30 and to fix dinner.

9 Dec

After a quick breakfast we check the nets on the way to our traps. Last nite the nets were checked at 10:00P and an ~~Anoura~~ ^{Sturnira caudata} was found in net #4. This morning we found a Anoura geoffreyi net #5, a Anoura caudata and an Anoura caudata geoffreyi in net #2. Then on to the traps. There were NO animals in our traps. We decided to put eleven more Tomahawks at the end of Line 3, it now has 43. ~~Then~~ Back to the house for lunch.

Evening- One more line of snap traps was set over on the other side of Ferninhos house. Bat nets at 1000P produced 3 Myotis. They are a beautiful rust color - different from

any I've seen.

10 Dec

Our distant traplines produced 3 animals. In line One a Philander trap #9T and in Line 3 a Proechimys and an Oryzomys. The bat nets this morning produced Artibeus.

11 Dec

Nothing at all on the "fossil river" and "tapir trail" traplines.

12 Dec

I moved 20 traps (10 tommies 10 shermans) off of the end of "fossil river". I put them in a clearing on the way back toward the house. The clearing, made for the power line is a 10 minute walk from the bridge ~~of~~ fork towards fossil river and "tapir trail".

All traps on the far away lines, which I am manning, produced nothing.

13 Dec

Today my new line on the powerline clearing didn't catch any animals, and neither did 'tapir' or 'fossil' trails. For the last couple of days we've been enclosed in clouds. Everything is white and wet.

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14 Dec

The constant mist/rain continues. @ Bruce went with me today to the distant traps in order to pick them up to get ready for departure back to São Paulo tomorrow. We left them stacked at the head of Tapis trail and the trunk with fossil river traps, is still at the empty lot with all the pipes. We will pick them up tomorrow on the way out of here.

We got two animals from the far lines. One spiny rat (juvenile) from the power line, and one Akodon from the fossil trail.

15 Dec

6:45A Sylvia and I ran the seven bat nets and took them down. Bruce ran the snap traps (and tomahawks) that were placed around ^{or close by} the house, also picking them up. Finished ~830 and went to the lab to pack it up.

Back to the house to pack our own things and wait for the van to pick us up. (est. time 200P) to go back to SP. Oh yeah - no bats this AM, Bruce got a Philander in a tomahawk.

around.

Upon returning to camp the specimens were all identified. So the total species count for the non-bats species was:

Neotoma albigula

Dipodomys merriami

D. spectabilis

Perognathus ~~intermedius~~ intermedius

Peromyscus maniculatus

P. leucopus

P. truei

P. boylii

Onychomys leucogaster

Eutamias dorsalis

that stayed down there were Chris (High team)
Mike, Stan, Lee + Maribel (High team).

This morning they reported catching

Onychomys leucogaster

Neotoma albigula

~~Neotoma~~ Perognathus intermedius

~~Neotoma~~ Peromyscus truei

Dipodomys spectabilis

Peromyscus leucopus

The other low teammate, John, didn't catch anything and neither did the High teammates that came to the higher locality - except Marianne she got a Peromyscus truei.

Late morning we put up some voucher specimens -

Early Evening 9/10/88

The other 1/2 of the teams went down to the lower localities to set traps.

From the low team was John + I; High = Susie, Marianne, Phil.

We were dropped off at separate locations along the way. The location I was dropped at was a lot more open

Journal

Fri PM Trapline

Started directly North of
Campsite in ^{dry} ravine. Will set
25 "upstream" (West) + 25 down-
stream.

We kept the same teams (right
low) as last time.

Set up bat nets in the tank
and almost right away caught
several bats. Caught were:

Myotis californicus

M. evotis

M. auriculus

Lasiurus cinereus

Tadarida brasiliensis

~~Epitesicus~~ Epitesicus fuscus

Myotis ~~homanensis~~ lucifugus

+ Lee (low team)

Frosty set Gopher traps ^{Macabee} + caught

2 Thomomys bottae

~~After checking a tree he set last~~