

1990

Field Notes

Joseph A. Cook

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JAE
Salvina 1990

Journal

Joseph A. Cook

Friday 15 June
1990

Up early this morning and we headed out to the airport to find Syd ~~who~~ who is flying on through to Buenos Aires, Argentina. He, Justine Andersson and Ron Pine will join our field crew later but are headed down to the SAREM/ASM mammal meetings which are being held in BA. Syd gave me \$7k so that I can look for a vehicle.

(Later in the ~~day~~ afternoon we meet with Arturo Moscoso, director of CDF-UTB, at the museum, and we were to meet later at the Tapeena)

Teresa Centurion
49726 Casa
42682 Museo

17:30
Office of
CERCONA
outside 3rd Avillo

Met w/ Hugo Hurtado - biologist for Parque Nacional Noel Kempff Mercado, Ing Ruiz (director) had already left. Hurtado showed us several maps (vegetation) of the park and we talked about our upcoming trip out to the park. Ing. Serabia is in charge of technical data for the park. He is responsible for maps etc.

After this meeting we (Larsge, Eduardo, and I) went to the museum to see Teresa Centurion the director. She noted the museum has a small grant from NY Botanical to buy a computer.

JAC
1990

Saturday
16 June

Spent the night in our room at the 200. We took the nitrogen tanks to Oxigeno which is ~ 1/2 Km N on the road to Villa-Vieja from the 3rd anillo (close to 200). We then drove into town to the LTB office and sent a package to pay for Roberto Riza's mother. Bought several items at the grocery store and stopped in at the museo.

When we return from Buenos Aires we will have to move quickly to get to the field by 24 June when we plan to head to Huanchaca.

11 am

Met with Nestor Ruiz, the director of Parque Noel Kempff Mercado, and discussed the possibilities for research in the park and we spoke about the convenio between

MSB and the park. We also went to the plaza de autos where they sell used vehicles and we looked at several. We will need to purchase one for this field season.

Nestor thinks there has been a large influx of mammals and birds into the park from Brazil. The LANDSAT photos of land use show very well the deforestation that has taken place across the Rio Verde in Brazil. He noted that 2 species of wood have been exploited in the vicinity of the park by several large asadores. He says the German Government is donating \$2 million

to the park

We agreed to spend a week beginning
24 June to travel to the Park to look it
over. We will plan on leaving early on Sunday
the 24th so that we can drive to the park
in one day. It is 600 Km from Santa
Cruz to the main park HQ at Los Ferros.

JAC
1990

Sunday
17 June

Up at 07:00. in the room at the zoo. Otto came by at 07:30 and we left for the airport at 08:00. There we met Fernando Terceros and Lenny Cuellar, two students from Univ. Gabriel René Moreno and the Museo "Ned Kuyff Mercado" and they will accompany us to Buenos Aires. We are travelling to the joint meeting of ASIM and SAREM (Sociedad Argentina para el Estudio de los Mamíferos). I am presenting a part of my dissertation and Jorge is presenting (with Rosanne Humphrey and myself) some of the C. boliviensis chromosome work. We will meet Syd, Justine, Ron Pine, Bruce Hayward, and others there.

It is a long flight from Santa Cruz to Buenos Aires (~ 2 hr) and we arrived in the early afternoon. Eduardo's wife, Maribe, was there to meet us along with a friend from Chile.

It took us more than an hour to get to downtown on the bus which cost \$2 per person. The taxis are much more expensive. We ran into Marvel Campbell & Rosanne Humphrey two former CMM students who are working with Mike Mares and they showed us a cheap hotel within walking distance of the SAREM-ASIM meeting.

17-22 June Buenos Aires meetings

JAC
1990

23 June

BOLIVIA: Santa Cruz de la Sierra. Up at 5:45 at the zoo. Drove out to Urn-Urn to pick up Terry and Scott on the scheduled 6:30^{am} flight. They were late arriving at 08:30 am. We returned to the zoo and dropped their stuff and then went with Otto to the plaza de "used" autos. We looked at several vehicles, the one we wanted was \$15K more than we had to spend. Terry and Otto were to take the vehicle to a mechanic to have it checked out while Jorge, Scott and I went to buy groceries. We decided on a 1978 Toyota 4x4 truck that ended up costing \$5,600. We had looked at it one week before and they had lowered the price \$400. W

Returned to the zoo and spent the evening ~~in~~ packing for our trip to Huanchara.

24 June
Sunday

Up at 3:50 am and began putting the gear on the vehicles. The truck we had brought yesterday quickly became overloaded and we ended up putting several footlockers on another truck driven by Mike Bennett an English ~~geologist~~ geologist. He had a new Toyota truck (owned by his company COMSAR) and was accompanied by Jim McNamee, a Canadian geologist.

Comsur 4-5140
Compañía Minera del Sur America
Av Monsenor Rivera No 376
Edificio Navallo 2^{na} Piso
Casilla 2112.

The crew to Huanchaca: Terry Yates, Scott Gardner, Jorge Salazar Bravo, Mike Bennett, Jim McNamee, Otto Carlos Jordan, Marcelo Zalles, Jose Carlos Herrera, Rosa Leng Cuellar, Rose Mary Woods, and 3 folks from the park. Hugo Hurtado (Biologist), Riko (driver) and Orlando ^{Jepes} (guide). also cousin of Nestor Riviz.

We left town finally at 6:00 am and the truck was too heavily loaded. The rear axle was constantly thumping as we hit bumps after bumps. Finally we unloaded more gear off of it and into Comsur's vehicle. We headed towards San Ramon via Estacion El Pailon (Cotacachi). We arrived at San Ramon about 12:00 hr after having picked up ^{a roadkilled} a fox and tamandua. We arrived at San Javier at 12:49 and then picked up a Euphractus ? km before San Andres. We hit Concepcion at 14:15, San Sylvestre at 15:30 and then broken down (bad coil) 20 km W of Santa Rosa de la Roca. We were towed by the geologists into town (Santa Rosa de la Roca) where we had dinner while the vehicle was being worked on. Earlier in the afternoon our front drive line had also broken.

45140
Jim McNamee 29619

JAC

A

25 June
1990

Monday

SANTA ROSA de la Roca - Rained a little during the night, but it really started pouring ~ 7:30 am.

Friza looked grim throughout the morning as the rain continued to fall. Unloaded our equipment out of the truck and set up the lab in a small house next to the ^{Farsante} ~~Restaurante~~ which is owned by Irving Pedraza. We ate breakfast at the restaurant - typical Bolivian roadside wayide. The rain did not let up until early afternoon. The park (Huanchaca) workers decided to wait until tomorrow to make the trip into the park. The roads are very muddy.

Our vehicle is not running due to the coil / points problem. Couldn't get it started all day. Mike Bennet (the geologist) drove us ^{at 13:30} down to town where we picked up the manager who took us out SSE (2 km) to his yuca field where he said there were lots of *Ticox* (cactus). We had a hard time finding the mounds due to the rain which continued till 16:00 hr. We put in a few sets and caught one ^(NK 21006) before we left the field walking for camp. Mike Bennet met us with the truck and gave us a ride back. He and his geologist buddy Jim had been drinking all afternoon. The park workers, including our biologist counterpart Hugo had spent the afternoon partying. The weather

Compañía Minera del Sur S.A.
Comsur

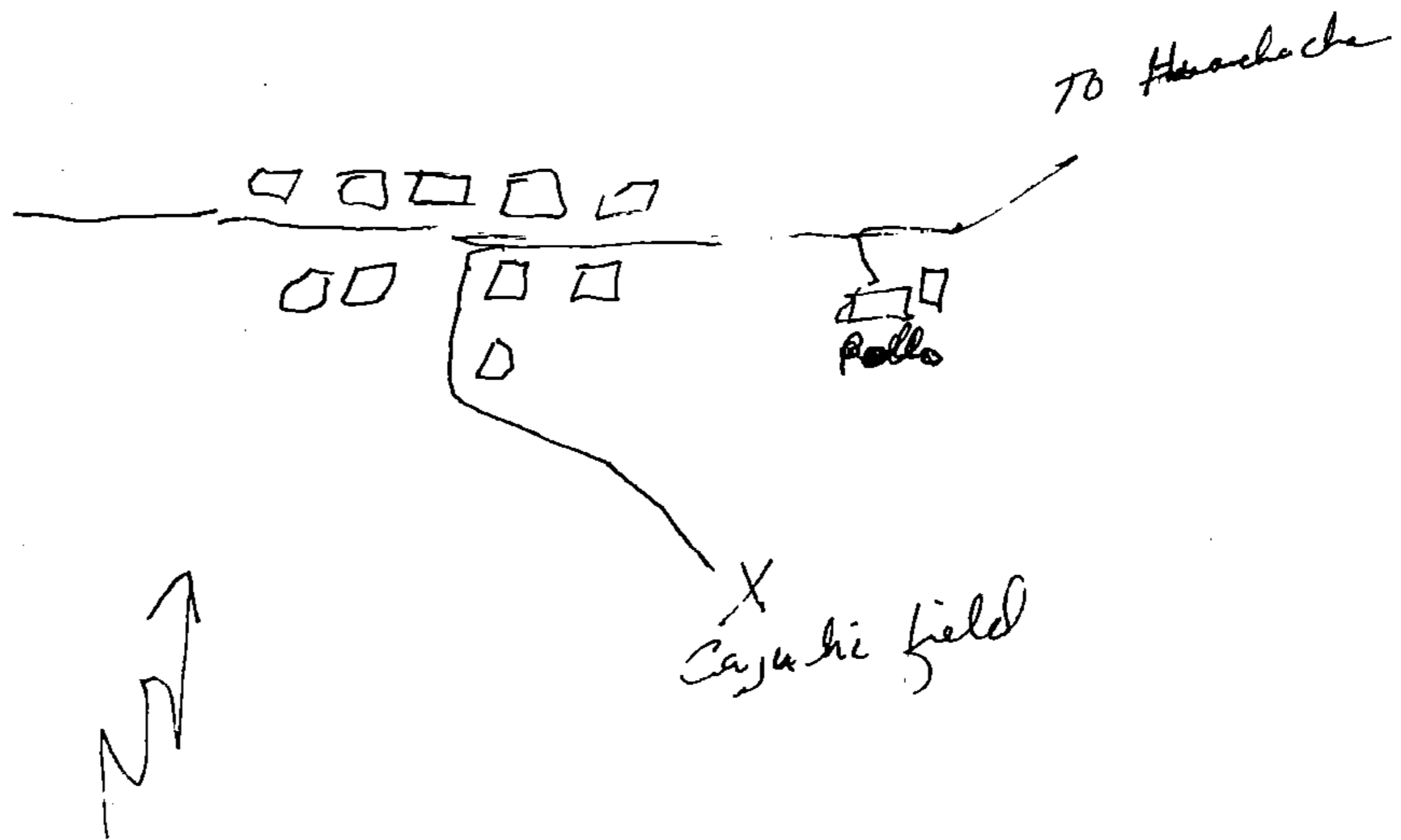
→ Mike Bennett ←

Jefe de Exploracion
Proyecto Santa Cruz

Av. Monseñor Rivero No. 376
Edificio Navarro 2do Piso
Casilla 2112

Telefonos 4-5140, 2-9619
Telex 4319 K y K BV.
Fax (591) (33) 34873

Santa Cruz BOLIVIA



TAC
1990

lifted in late afternoon and we got out
2500 shrimps and 2 bat nets near a
Ficus tree that was in fruit. We caught
13 bats in all including several Artibeus
lituratus, ~~and~~ Uroderma bilobatum, and
Vampyrus helleri.

Caught another two
at 22:00 H.
SA ♂ 21005.
It was dead.

Spent the evening prepping animals
and showing our Bolivian colleagues some
of the intricacies of museum preparations.
We worked until 4:35 in the morning.
It was a long night.

Tuesday
26 June

Up at 7:30. Overcast in the a.m. and
cool. The park workers took off at 8:30
with Jorge and Jose Carlos and Rosemary.
The geologists + Otto Carlos Judas and
Rosemary Cuellar left about 45 minutes
later. Mike Bennett called his office in
Santa Cruz and they are to send us a new
coil, set of points, and condenser by bus for
our vehicle.

Mike, Jerry, Scott and I walked down to
the tree field. We caught a large ♂ Uroderma
bolivensis (NK 21020) in the same lesson that
we caught the female yesterday (NK 21006).
Set a few more traps and returned to
camp. The owner of the Pollo Farsante had
come up with a new coil for our truck so
we now have 2 lousy coils, ~~and~~ 1 brand new one, and

Michel Rosa Pardo

Rancho = Remanzo.

Walter Rosa Añez.

21
460
570
85
149
1265
800 Terry gave me
\$465 Syd owes me 3 July 90

JAL
1970

26 June
Continued

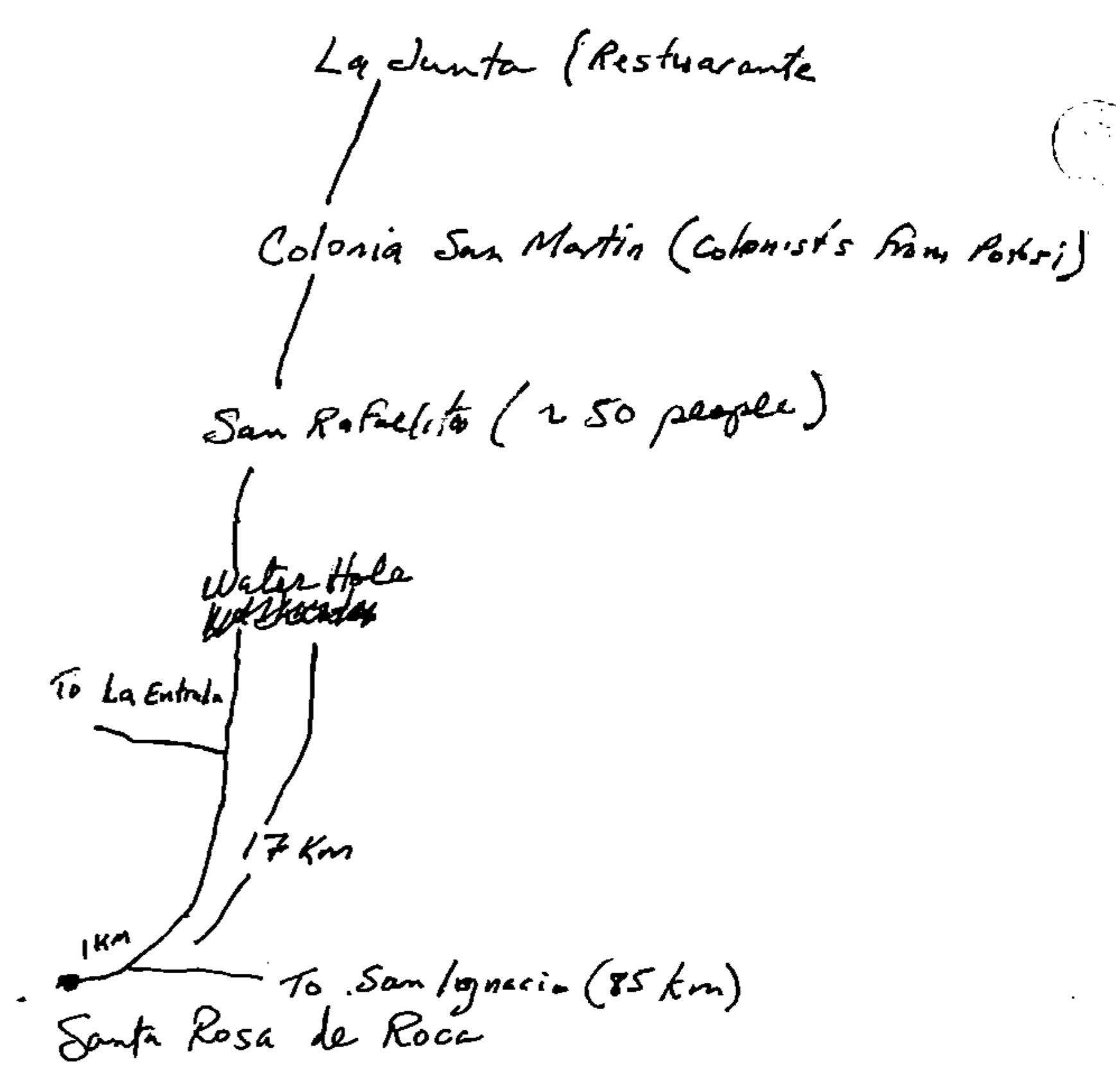
Marcello Zalles
(Kids) Nicholas
Anna Karina
wife - Cristina Casas

another new one on the way. We processed the Oligoryzomys and C. boliviensis and then returned to the 2 km SSE Santa Rosa de la Pica site and set 3 but nets . 2 through the forest across the road and 1 through a banana grove. The forest or woods surrounding the yuca ~~of~~ and banana fields is thick (heavy shrub understory) with bamboo and algarrobillo trees. This is the tree that is interspersed in the grassland area. The moon was $\sim 1/4$ and set $\sim 22:30$. We caught Glossophaga and Corallia. Took the nets down at 11:00 and returned to our lab at Pello Farsante.

27 June
Wednesday

Checked the two traps first thing and they were empty. We met some young fellows (Miguel, Ramelio, etc) who led us to a field ~ 150 m north of where we'd been trapping and we put in a total of 7 sets. The activity seemed higher here, but we still are not finding many fresh burrows. The recent heavy rains may have something to do with this. We finished setting traps at 11 and returned to the lab to work up the catches.

Afternoon check of the traps resulted in 2 trous. We thought the group ^{that} we had sent to the park would return this afternoon, but they did not.



- 702.0 Santa Rosa de la Roca
- 783 left turn
- 797.7 left road "Entrada", stay right
- 798 Eira barbara
- 800 San Rafaelito (~50 people)
- 824 Maducito (37 minutes)
- 838.7 Dasyprocta
- 47.0 Colonia San Martin colonists from Potosi
- 858.8 La Junta
- 965.2 Fox
- 973 La Florida - turnoff right, 3 Km away (100 people, + airstrip)
- 975 Moira - large sawmill camp, parabolic TV, etc
- 976 Rio Paragua
- 007 Los Fierros

JHE
1990

28 June
Thursday -

Up at 5 a.m. Pulled our two traps which were empty; so we took a total of 5 Ctenomys boliviensis from this large field. The last two were ~ 150 m from the first three taken. We returned to the Pollo Farsante and processed the 5 bats from last night as well as the two tuco which had been yooat stressed.

Our plan was to take our trucks ~~into~~ down the road towards Huanchaca and then switch vehicles when we ran into the others who should be leaving the park now. We drove down into Santa Rosa de la Roca (~150 m) to my gasoline and noticed that the clutch was slipping. The mechanic adjusted it a bit, but I discovered that there is practically no clutch left. Maybe enough to get back to Santa Cruz. We decided to wait for the others to return. ^(Jorge, Jose Carlos, Hugo & Kiko) They arrived at 13:30 and we took off for the park at 15:00 h.

We passed the geologists w/ Otto ~ 1/2 h up the road. There is a hazardous water hole ~ 20 km from Santa Rosa de la Roca and then a few other smaller crossings but in general the road was much better than what we'd seen before Santa Rosa de la Roca.

We stopped for a beer at La Junta and I picked up a tamarin skull and Scott found the lower jaw of a sericid.

La Junta, 70 km
N Santa Rosa de la
Roca

JAC

28 June 90
continued

Arrived at the camp, Los Fierros, at 20:30.

This camp is still under construction and included barracks, office, kitchen, etc. There is a ham radio in the office. We went out to check the nets left up by yesterday's crew and we had one Blattella. We talked with Ing.

Los Fierros

Gregorio Cerrogrande who is in charge of most of the park operations. He seemed very knowledgeable and we poured over maps as he discussed the different habitats and the logistics of working in the park.

The serrania is 400 m higher than the surrounding lowlands. They are currently planning to build 2 other camps like this one. These will be Rio Pancerna and Mariposita.

29 June

But nets were left up over night and we caught several small phyllostomids (Geosotocoryza). Nothing in the 40 shermans. We have only a short time here this morning so we drove around the southwestern corner of the Serrania and then walked a short distance towards the north on an abandoned road near several large nesting caterpillars and tractors - thus the name Los Fierros. The pampas extend a great distance to the south from this vantage point. The pampas begin only a short distance from camp

Los Fierros

Maps of the transect from Camiri to Tarabuco

1:250 From Instituto Geografico Militar
Ave. 3 PASOS AL FRENTE
ZONA ESTE (STA. CRUZ)
(TAKE MINIBUS LINEA 14)

Aguile SE 20-9

Camargo SF 20-1

BERMEJO SF 20-10

VILLAZON SF 20-9

CHARAGUA SE 20-14

VALLEGRANDE SE 20-10

SE 20-13

SF 20-2

JAR

29 June
(Continued)

We returned to camp (last kind (typical) rainforest) and left at 11:00 Am. We had only got to spend a short time in the park. We had seen several fox and lots of tracks of tapirus (ante), cats, ant-eaters, harina, oso melero, etc. This is really an incredibly out of the way spot with little indication of human influence.

We returned to

Cedro - taller tree

Combara - large tree
that is now logged

Mara - mahogany

Alcornogue - twisted
oak type tree of
the panga's

Villages that are close to Las Fierros

La Florida 23 Families

Chirapas - 8 Families

El Carmen

Porvenir

Piso Fierro

Brazil - across the Rio Itenezy and the Rio Verde
lots of humans

Maps of Huanchaca to get.

① Mapa de departamento Corde Cruz 1:1,000,000 April 1984

② Reserva forestal "Bajo Paragua" 1:250

③ Mapa forestal (suelos) PANAM 1:100

JAC

3 July 90 Finally finished up the bats this a.m. There were 71 in all, either ^{both} Glossophaga and Carollia. We went to the museum after lunch and spent a couple hours talking with the crew, looking at the exhibits, and looking at the specimens. Syd noted the second record of Pteronura from Bolivia (skull only) as well as potentially the first record of Felis colocola. I left a museum poster (about how MSB is set up) by Bill Gannon and a poster on the Ctenomys boliviensis burrow excavation that we conducted in 1988.

Terry, Eduardo, & I went to look at maps for our upcoming trip south (Camiri-Torabaco transect). We were missing two maps (they are now \$16 a piece) and one of these was the last one the Instituto Geografico Militar had in stock. They asked us to return tomorrow for a copy.

Scott and Jorge had gone to check on the vehicles. The red jeep is apparently in very sad shape. The mechanic said he'd have a list for us in the morning.

1990

8 July

Santa Cruz: Bolivia; Up at 5 a.m. to leave for the South. The various members of the crew arrived from various directions and we got the three vehicles packed by 07:00. Drove to the Hotel International and picked up Syd and Justine, filled the vehicles, and headed south ^{08:00} for Camiri. The road was typically lousy and the going slow. We had lunch at Abajo ^(160 km) at 08:00. Today is the final of the Mundial, the 4 year ^{world} final in soccer and everyone was glued to their radios (Germany won 1-0 over Argentina).

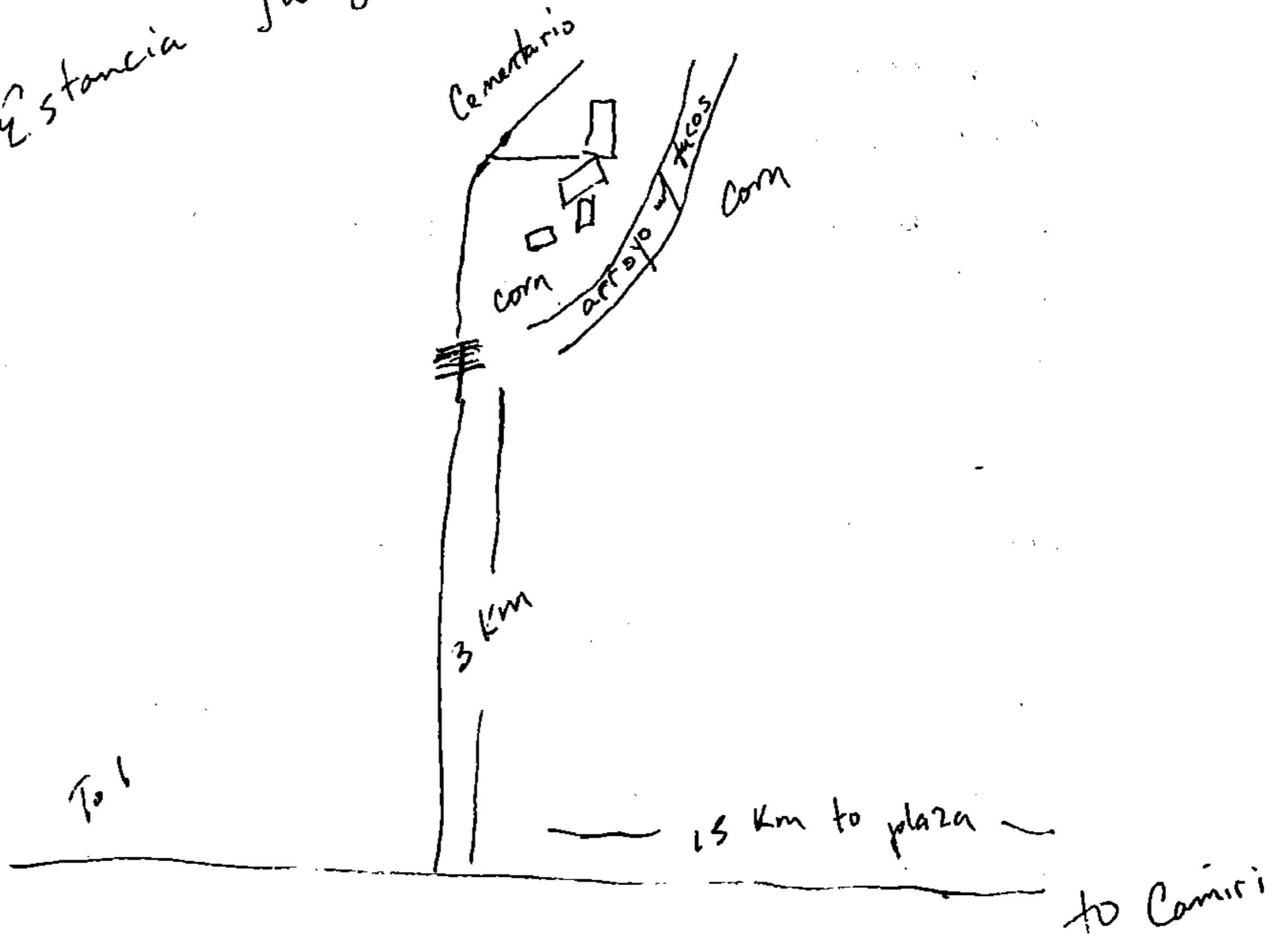
We continued ^{on} our way - the red toyota jeep, the blue toyota truck, and the 2 ton zoo truck.

It rained lightly intermittently throughout the day and we had problems with the clutch on the blue truck and finally concluded the master cylinder (hydraulic clutch) needs repair. We drove on grinding gears all along the way. The road enters the foothills and nearly reaches 1000 m at several points. The night fell around 6 and we were still on the road.

Finally found the road we were looking for that led to the Estancia Jafiguina (de Ergon & Nelly Wacther). We arrived after 20:30. The owners were not home and the caretaker (woman) was reluctant to let us come inside their fence. We stood around outside shuddling in the ^{cold} dark night and she finally relented and let us unload all our equipment. We put up tents and retired at 23:00.

Erqon &
Nelly de Waether

Estancia Yatiguina



Dominant

Acacia
Bombacacia - tabonche, choricea
Some Prosopis

1990

9 July

Up and sent a crew into Camiri to get the truck clutch fixed. We looked around and set out ~ 70 live traps up the arroyo which is just to the east of the hacienda. The hacienda is very large w/ lots of out buildings, fruit trees, equipment, and new construction taking place.

They obviously have lots of #. The *Cujckis* (tunas) are fairly active and dense up and down the arroyo. We had caught 3 within a couple hours and 11 by 20:00. There are 15 of us now as follows:

Syd & Justin Anderson, Jerry Yates, Scott Gardner, Jorge Salazar, Ron Pine, Otto Carlos Jordan, Emma Luna-Pizarro, Fernando Terceros, Rosalenny Cuellar, Juan Carlos Carrasco, José Carlos Herrera, Eduardo Palma, Marcello Zeller, and myself. There is a swasso in the process, but it has not rained yet today.

It is overcast, windy, and cold. ~~Light~~. [See road log from Santa Cruz] Jorge, Eduardo, and Rosalenny set out 353 traps (shermans) around the hacienda. The undisturbed habitat is monte chaguero Paraguayo alto with *Chiroopsis*, *Prosopis*, *Cactaceae*, *Acacia ficata*, and *Bromeliaceae* (*Chiriquata*) predominate and a few orchids. set is very dense and difficult to walk through. Eduardo came back from his trapline with lots of cuts and scrapes from the vegetation.

We bet on the number of marsupials we'd have by the morning and retired after 23:00 after a solid day of preparing specimens.

Zrachilla = test tube rack

10 July 1990.

7- Calomys - maybe 2 species

1- Marmosa elegans venusta

1 Grasomys dommerum

13 Clomys

+ bats

1 Lasiurus borealis (now called

Antibes)

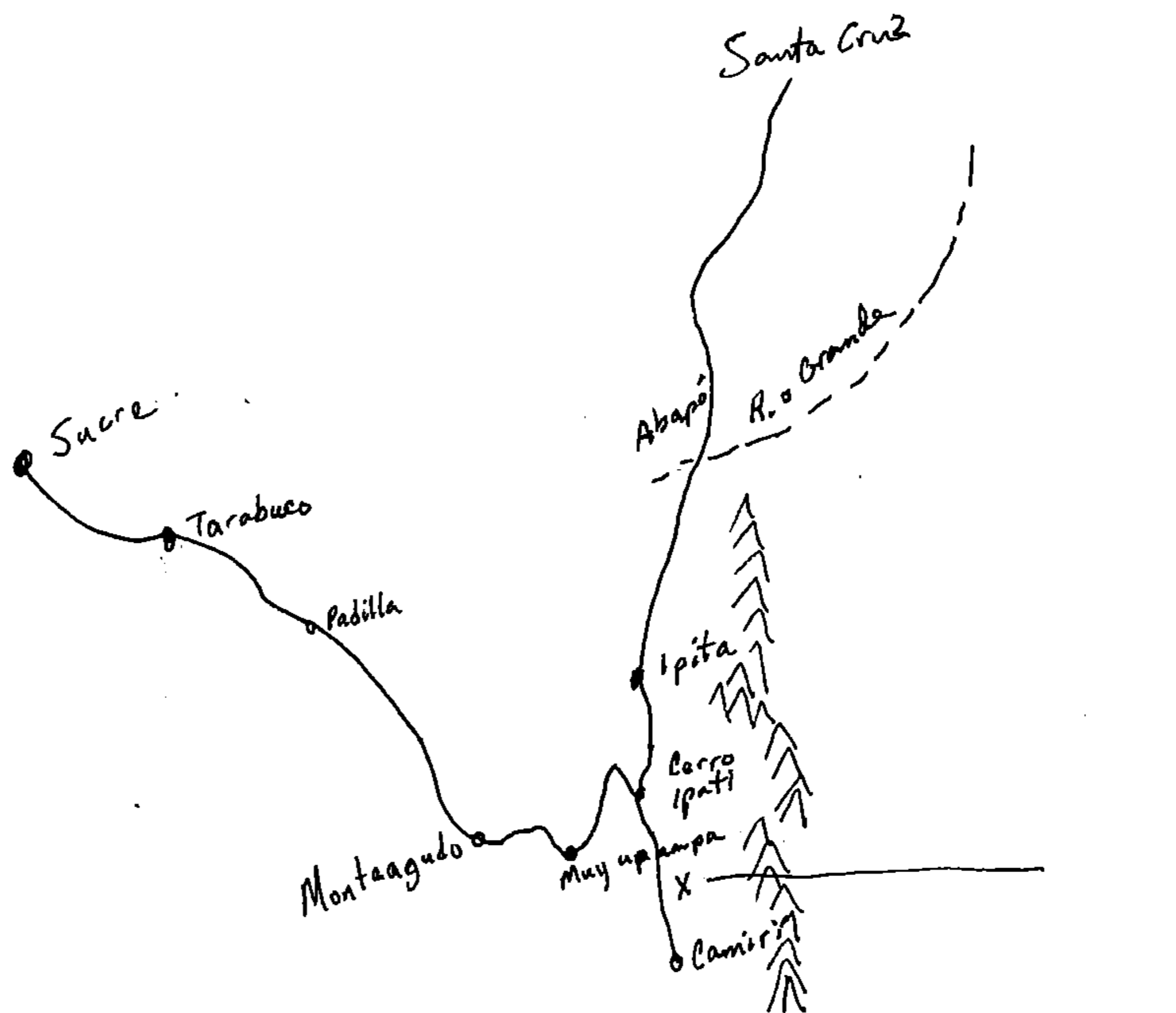
Wm

10
July
1990
Tuesday

Up at 7:00. Lots of dogs barking and horses passing early in the morning. We checked our *Cynochi* traps and pulled out another 13 throughout the day. We switched most of the *Cynochi* traps and spent another solid day of prepping specimens. We are getting a very nice series of *Cynochi* (25 total) from this locality and still are not sure what species it is or if it's a new one. It is ~~very~~ reddish and about the size of *E. fuscus*.

Many of the females are lactating and a few are pregnant. The ♀/♂ ratio is fairly high (19♀:6♂).

John and I are taking reproductive data on the *traces* including preserving the reproductive tracts, putting the sperm into 10% formalin (from the testes and epididymis - separate), karyotyping ~~the~~ the other testes and making notes on color of sex organs, size, etc.



JHE
1990

12 July

Up at 6 and we packed the gear to head west into the mountains towards Sucre. This morning we caught no tucos, but 1 Marmosa, 1 Arctomys, and 7 Calomys. We took one load of gear into Ipati (19 Km away) and dropped Morillo, Juan Carlos, & Jose Carlos off so that they could catch a Chollo truck up to Montegudo some 130 km up the road towards Sucre. We have too much gear to carry it all with us on our two vehicles.

We dropped the 3 fellas at 11 at the junction returned to the Estancia and loaded the rest of the gear. We passed by Ipati and the three fellas on the way to Montegudo. The road climbed quickly up a canyon through several different habitat types including a closed cloud forest type ~~habitat~~ with lots of epiphytic plants. After climbing two steep passes, we dropped down into Montegudo just before dark. Montegudo was surprisingly clean & prosperous. Otto went to the office of the CORDECH ~~office~~ and returned with ~~the~~ who took us out to the regional pig farm (experimental farm run by CORDECH). We were taken to the laboratory and set up our lab ~~and~~ inside and tents in the yard nearby. Several traplines were set allt (including several tucos sets) and Scott and I took off in the blue pickup to retrieve

BOLIVIA: Chuquisaca, 2 km SW of Monteagudo, 1130 m
19°49'S, 63°58'W

Scott fixed the tapeworm at 1:09 on 13 July 1990.
From Ctenomys sp. at Monteagudo

15 July
1990

Up at 8:00. Checked traps and pulled everything. Three more cujachis and ~~at~~ another good haul of rats & mice, Atkoda, Bolomys, Calomys, ^(-?)Oxymykterus, but no Marmosa. We processed the dead and packed up the rest (or 40) as well as all our other gear. We took part of the gear (a picking truck load) into Montegudo and dropped Jorge, Juan Carlos and Fernando to shepherd the equipment (by jumping on a chollo truck) into Padilla (~130 km).

We finally left the pig farm and Montegudo a little after 14:30. The road went up and down through several canyons and climbed as high as 2500 m.

BOLIVIA: Chuquisaca Dept; 11 km N & 16 km W of Padilla
2050 m, 19°12'S, 64°27'W

JRC
1990.

the others. We made it 35 km out of town before the clutch gave out completely, so we stopped the truck and the wires leading to the CB fired in front of us. An apparent short circuit. We carefully drove the vehicle back to the pig farm and finished processing the normals from Cerro Yat.

14-15 July 1990

to Cajuchis cane in at 2:00 am
at processing till 3:30 am
Kampokped y Cajuchis.

15-16 July

Spent the night at the Residencial
Toñito