



Atlapetes (Bush finches), Cerro Punta, Panama; Iquitos, Peru; Pichincha, Ecuador, 1958, 1960-1962

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Atlapetes, I

September 19, 1958
Cerro Punta

~~Atlapetes~~ = gutturales = Yellow-throated Bush-finch.

These birds are quite common around here. Single, or in pairs, or trios (probably adults with young). In undergrowth usually, but sometimes come out in open to feed on ground or sit on exposed perches. Less skulking than I expected.

They also seem to join the mixed flocks of Bush-tanagers & warblers - at least temporarily.

They are quite Anemoneops-like in general effect, but rather slenderer, less round-bodied.

They do TF's of the usual type, quite like Anemoneops, but very little or (less probably) nothing in the way of WF's.

The only sound I have ever heard them make is a soft "Tuck", obviously a CN, frequently repeated.

I have caught one bird in the net and put it into a cage. Quite silent throughout.

~~Atlapetes~~ = brunnei-nucha = Chestnut-capped Bush-finch.

These birds seem to be moderately common a little further down the mountain. They are very definitely extremely skulking. I have seen none this morning - until one appeared in the net!

I put this bird in the cage, and it was quite silent throughout the period it was handled.

Atlapetes, I

September 21, 1958

Cerro Punta

I got another Yellow-throat in the net this morning. Again quite silent when handled.

Surprisingly enough, mates of this species do not seem to give any sort of vocalization when they join or rejoin one another. Quite unlike the Green-backed Sparrows or Yellow-thighed Finches.

Atlapetes, I

March 3, 1959

Cerro Punta

Yellow-throats around now, much as last year. Singly or in pairs. In the same edges as the Yellow-thighed Finches. Possibly actually following or being followed by the Yellow-thighed Finches — although I can't be sure about this.

As usual, the Yellow-throats are quite remarkably silent, on the whole. I am not sure that I have even heard one of them utter a single CN yet this trip.

I think I have probably heard "song" however. One bird of a pair I disturbed. When I first got a clear view of this bird, it was sitting with a piece of n.m. in its bill, a couple of feet away from its mate. Then, I think it uttered a soft warble, followed immediately by a soft trill, before it hopped toward its mate and dropped the n.m. Later on, I think that the same bird uttered a long series of accelerated notes, quite like the "R Song" of the Green-backed Sparrow, but

Atlapetes, Mar. 3, 1959, II.

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very much softer, while it was looking at me rather nervously. It is possible - I suppose - that the "warble" followed by "tut" I heard earlier may have been something of the same sort.

Both these vocalizations seemed to be given from perfectly unritualized sitting postures.

Atlapetes, I

March 6, 1959

Cerro Punta

We got a very good view of a Chestnut-capped Bush-finch singing this morning. Couldn't see what started it off. When we did see the bird, it was sitting in a low bush, about 1 or 2 ft off the ground, singing apparently by itself. The song itself was a long, rather soft, whistled phrase. The phrases were repeated again & again for at least a minute, possibly more. They were also quite variable. A "typical" phrase may have been more or less comme ça.

"Tut tut tut - teeee tut - teeee teeee"

I think that the number of introductory "Tut"s varied from time to time, and it is possible that one or two were occasionally inserted later in the phrase. I also think that the number of doublets, "tut - teeee" was somewhat variable, some phrases perhaps including 3. In any case, the main part of the phrase apparently always consisted of doublets. And all the phrases ended with a single "teeee".

This song was given while the bird sat in an ordinary sitting posture - with crest very much raised (CR), and throat feathers at least moderately fluffed.

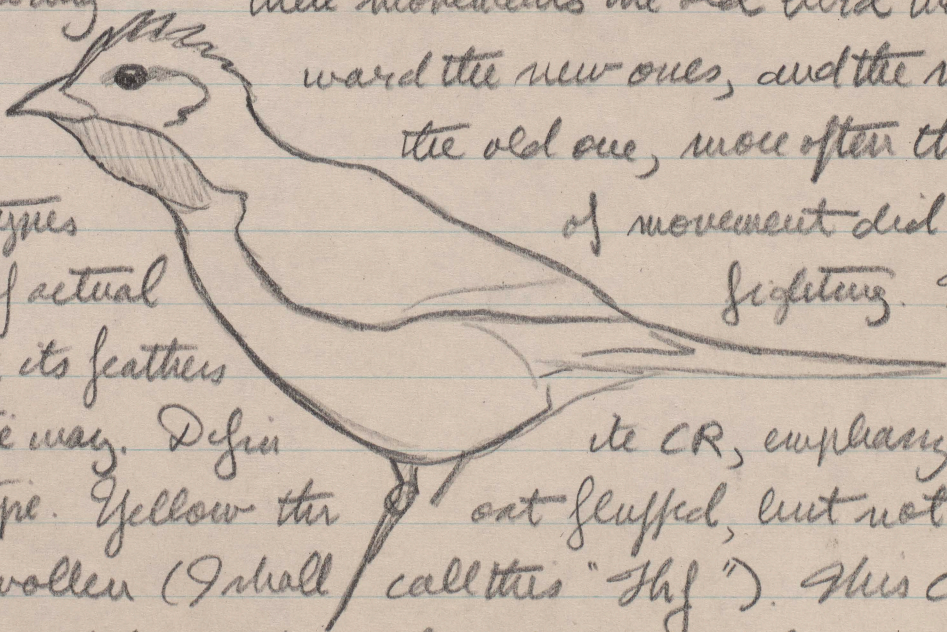
The bird just disappeared from view after it stopped singing.

Atlapetes, I

March 12, 1959
Barro Colorado

I caught 2 Yellow-throated Atlapetes in my nets at Cero Punta before leaving. Like so many other species there, they were quite silent when handled.

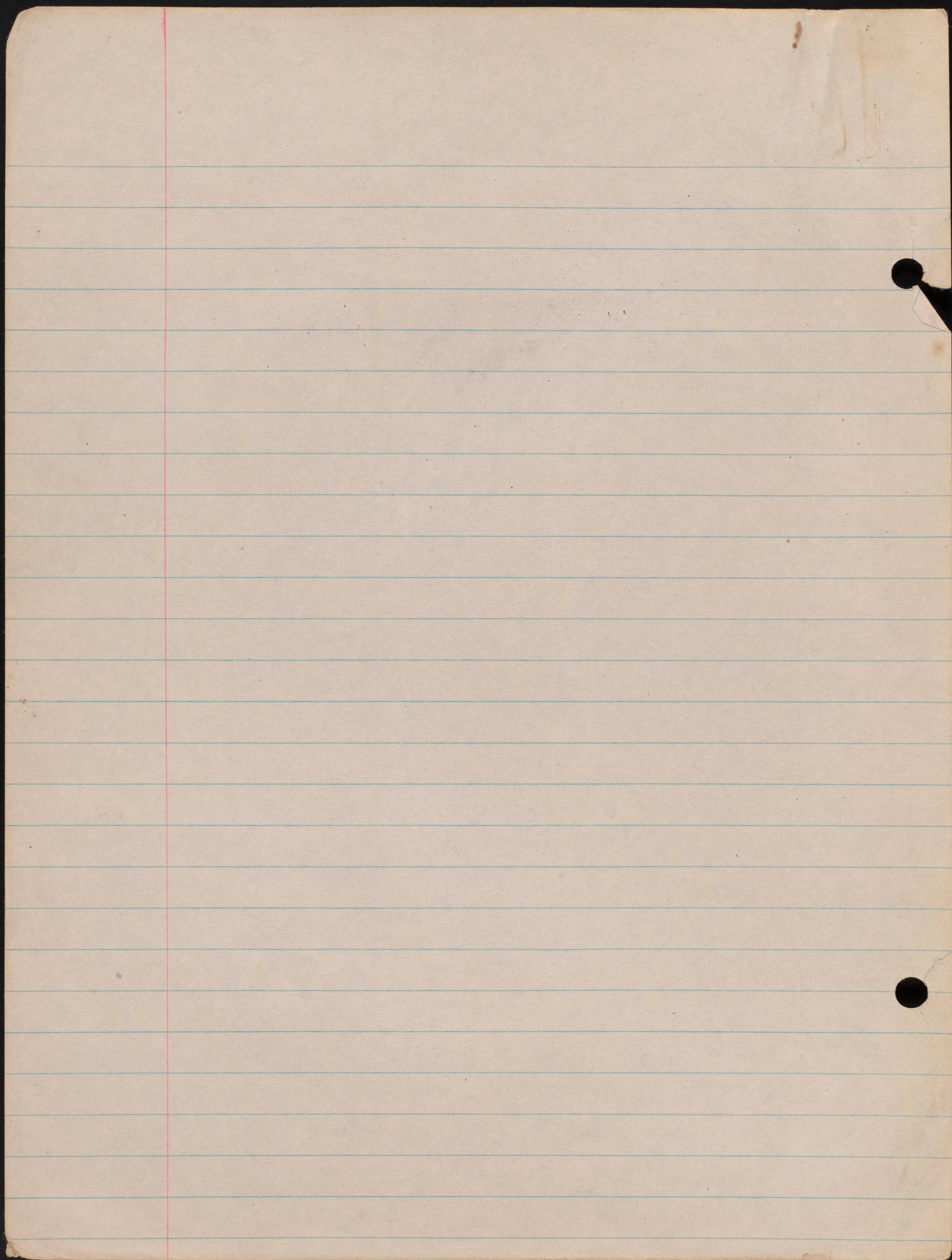
When I brought them here, we banded them (1 blue and 1 red), and let them loose in the cage with the one surviving Yellow throat from my previous trip to Cero Punta. I think that one or both of the new birds uttered a couple of single, rather liquid-sounding "chirp" notes when first released. After that I only watched them for about 5 minutes (as I wanted to let them settle down in peace). During this period there was a lot of active hopping & flying back & forth by all 3 birds, but they were all quite silent throughout. Silence is obviously one of the most distinctive characters of Atlapetes. I think that during these movements the old bird was more often advancing toward the new ones, and the new ones retreated before the old one, more often than the reverse; but both types of movement did occur. There were no signs of actual fighting. The old bird often stood with its feathers arranged in a rather distinctive way. Definite CR, emphasizing the white crown stripe. Yellow throat fluffed, but not ruffled, just looking swollen (I shall call this "Thf"). This CR and Thf is very reminiscent of brunnei-nucha, but much less extreme. The old bird combined its CR and Thf with a variety of postures. Standing high, crouching low and forward, etc. etc. All sorts of obvious



Atlapetes, Mar. 12, 1959, I

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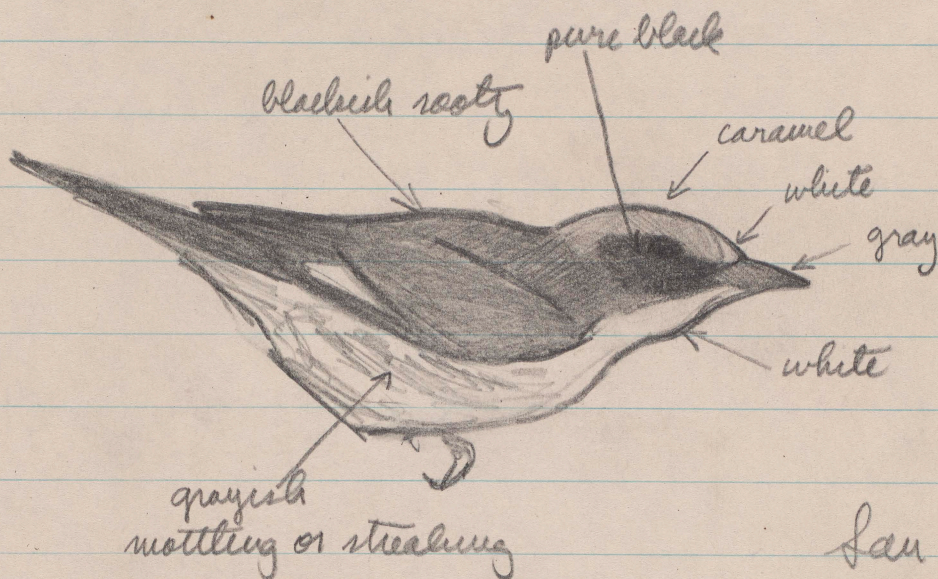
only unritualized "pre-flight" postures. Sometimes accompanied by G,
but this was never very extreme, and I don't know if it was ritual-
ized or not.



Atlapetes, I.

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~~Atlapetes~~ = leucopterus



San Antonio

Ca. de Quito

Afternoon, August 4, 1959

We came across a small flock (at least 4 or 5) of these birds, in the brush along a small river in the arid temperate zone.

Very active and restless birds. As far as I could tell (and I never got too overwhelmingly good a view of the birds), they moved about just like the Chlorospingus at Chiriqui.

The most distinctive feature of these birds, if they really were a species of Chlorospingus, was their comparative silence. They gave a lot of "Tut" CN's when just moving about in the bushes, and accelerated bursts of at least 5 or 6 rapid "Tut" CN's when flying between adjacent bushes (these accelerated series were far too slow, however, to be called an "R" of any sort), but all these "Tut"s were relatively soft.

When we first came across these birds, they were feeding on the ground and low in some trees (willows) near some chinicos and some individuals of a Conirostrum species. When the whole group

Atlapetes, Aug. 4, 1959, I

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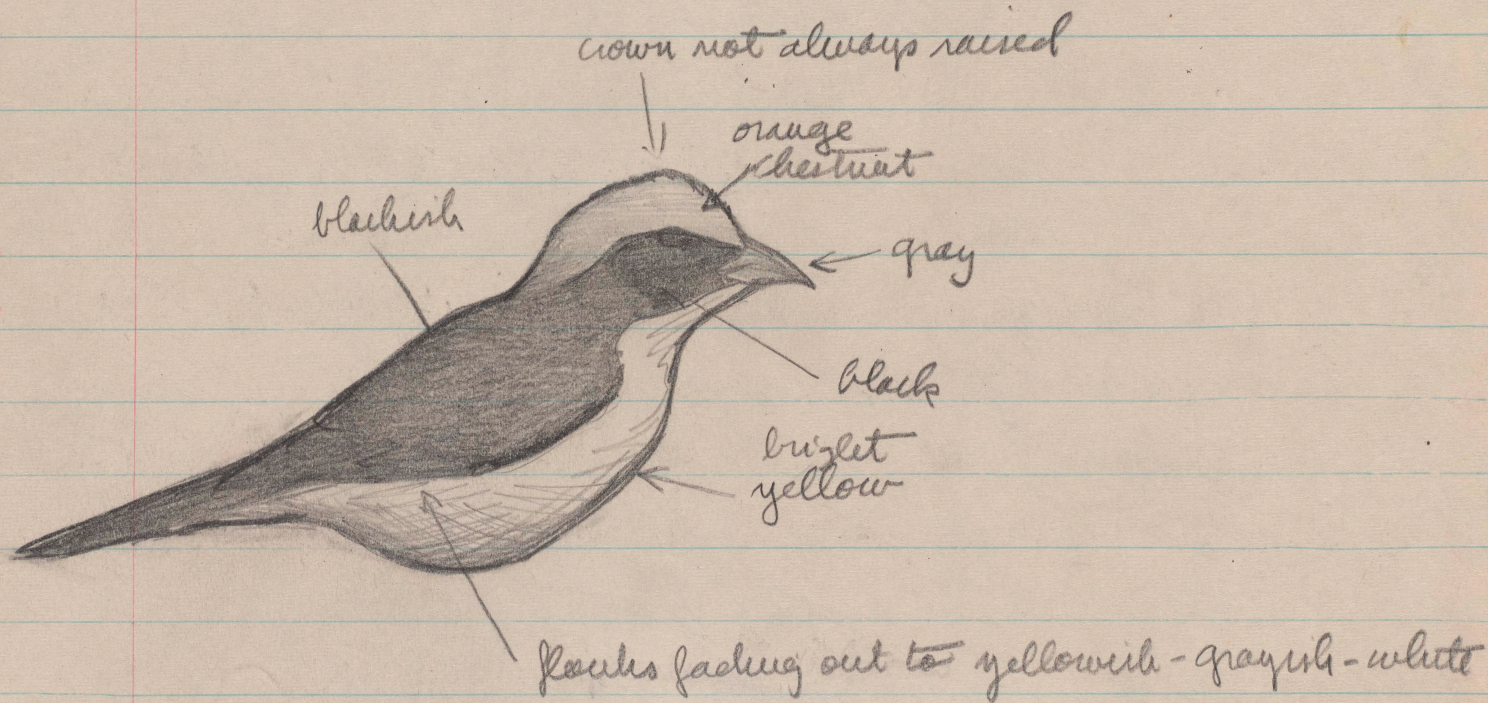
was disturbed by our approach, however, the presumed Bush-tanagers segregated out. Later in the afternoon, I saw a Chircol in the same bush as the presumed Bush-tanagers, but I don't know if this was anything more than coincidence or not.

Atlapetes I

August 5, 1959

~~Atlapetes~~ = rufinucha

Cerro Pichincha



This afternoon, on Pichincha, in the humid paramo zone, in a hedge along a road side (i.e. in vegetation which may really be characteristic of the upper humid temperate zone) I came across a small group of at least 3 birds of new species of Chlorospingus or Atlapetes or something very similar.

Moving about quite like the "Chlorospingus" I saw yesterday. Also relatively silent, although one of the birds probably uttered a few soft, rather buzzy, single "Dzucht" notes as it moved through the bushes (it

Atlapetes, Aug. 5, 1959, II,

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generally kept low in the bushes, seldom or never more than a couple of feet off the ground).

I was only able to see one bird well for a couple of minutes. Part of this time, it kept the top of its head absolutely smoothed down flat, but once it did a little CR quite like that of Atlapetes.

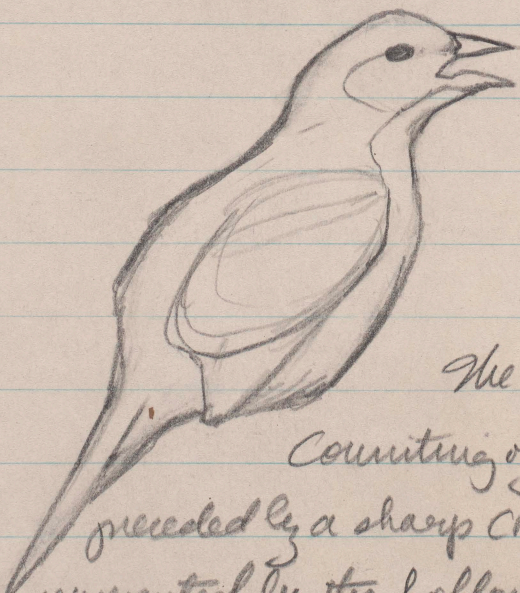
Atlapetes, I

August 17, 1959

Cerro Atacasa

This morning we arrived at dawn up in the paramo, at a place where bushy vegetation (characteristic of the humid temperate zone?) extended up a valley into the grassy slopes. When we first arrived, there were some 2 or 3 of the rufous-capped, yellow-throated, Chlorospingus-like birds, singing from perches in the scrubbery.

I was only able to see one bird singing, and this was under rather unfavorable conditions, but his singing posture seemed to be comme ça:



Quite fluffed.

Wings slightly drooped

The songs themselves were quite highly variable. Counting of clear whistled notes and rattles, usually or always preceded by a sharp CN-like Note. Some of the songs I heard might be represented by the following diagrams & transcriptions:
"chip chee Feeo Feeo" or "chip cheeo Feeo Feeo" or

Atlapetes, Aug 7, 1959, II

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"chip chee mmmm" or "chip chee wheoo" or

"chip fees fees mmmm"

All this was quite reminiscent of the SR type songs of the Brown-capped Bush-tanager, and even more reminiscent of the vocal repertoire of the sooty-capped Bush-tanager, insofar as the R element seems to be only loosely connected with the more musical song part.

Surprisingly enough, the singing birds all stopped and disappeared by a few minutes after dawn, and I didn't observe any more trace of them during the rest of the morning.

Atlapetes, I

August 9, 1959

Cerro Picachica

Watching several small parties of this yellow-bellied species moving through bushy "hedges" near the top of the humid temperate zone here. Very very active and restless. Some, at least, of these small parties were family groups, adults with fully grown young.

The birds were rather silent, except for the fact that they uttered rather weak "Trit" CN's nearly constantly, most of the time, both when actually moving or flying and when perched ready to move.

A couple of times this morning there were sudden outbursts of more elaborate vocalizations in one or more of the parties. I couldn't tell what provoked these outbursts. It is possible that all or most of these elaborate vocalizations were being used as "greeting" when one member of a family caught up with another. These elaborate vocalizations contained most of the same elements as the "ordinary song" described above on Aug. 7, but

Atlapetes, Aug. 9, 1957, II.

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somewhat differently arranged, with some additions. The typical form of these elaborate "greeting vocalizations" (as I shall call them for the time being, although I don't actually know what their function was) might be represented as follows: "Tuk tuk tuk tuk tuk tuk MMMMMMMM wheeeooo wheeeooo wheeeooo wheeeooo wheeeooo."

Later I heard a bird apparently singing by itself. It gave some phrases just like those described on Aug. 7, also some phrases just like the "greeting vocalizations" described immediately above, and also a great number of pure Rattles by themselves alone!!

Atlapetes, I.

March 20, 1960
Cerro Punta

Have been watching Yellow-throated Bush-finches here, in the usual places. Behaving much as in previous years. Shuffling and silent.

Watching one pair particularly closely, around 7000 feet. Call this pair A. Moving about in the shrubbery. But comparatively tame, and so occasionally coming to the tops of bushes. Every once in a while, one bird would be left alone on a top of a bush when its mate left it behind. Such a bird tended to sit there for at least a few seconds, looking more or less alert (occasionally adopting a pre-flight posture, with Thif, like the one drawn on p. 4.), doing occasional TF's (with very little WF, as usual), and uttering a lot of single CN's! These CN's are thin, and apparently soft, but quite remarkably penetrating. I would now transcribe them as "Trit" (rather than "Tuck" as on p. 1.). One bird, probably the ♀, when left al

Atlapetes, Mar. 20, 1960, II.

(11)

one for a comparatively long period, uttered a few single, noticeably longer "Tseeeet" Notes intermingled with ordinary CN's, before flying off, presumably to join its mate. These long "Tseeeet" Notes were presumably produced by thwarting of something like a pairing drive. I shall call them "ECN's." I think that once, when one bird was left alone (possibly the ♂?), it uttered a few CN's and then a long, thin, soft, warbling "song", rather like a muffled & particularly soft version of the "song" of the Yellow-thighed Finch.

Both the CN's and ECN's are certainly usually uttered with the bill closed, although the bill is opened & closed occasionally with either one or both types of notes. If one bird did utter a "song" today, this was also done with the bill closed throughout.

Atlapetes, I.

March 22, 1960
Cerro Punta

Saw an apparent pair of Yellow-throats sitting exposed on a top of a bush. A third bird appeared, and one of the pair flew at it and chased it away. This appeared to be purely hostile. And apparently purely silent! The two birds involved in the chase disappeared, and the remaining bird (the ♀ of the pair?) remained sitting for several seconds and uttered a whole series of ECN's (single but quite rapidly repeated).

This afternoon we saw a little more ECN behavior, in 2 pairs.

In the case of one pair, one bird flew across the road and into a thicket on one side of a field; and then began to utter ECN's in moderately rapid rhythm — — — — —

Atlapetes, Mar. 22, 1960, II.

(17)

It was immediately answered by another bird, presumably its mate, from the opposite side of the field. This other bird also uttered ECN's, in more or less the same rhythm. Then this other bird gradually crossed the field, flying from bush to bush in the field, continuing to utter ECN's until it was halfway across. When the 2 birds finally got together, we did not hear any sort of vocal greeting or song (unfortunately, we could not hear them, as they were hidden in the shrubbery)

for both sexes can utter ECN's.

Later on, we saw another pair fly across the road, one bird well ahead of the other. The front bird uttered 3 ECN's in flight, in a rhythm comme ça: — — —

I am beginning to think that atlapetes (i.e. the two species here) may be quite closely related to Pellioophorus. The use of ECN's by a Yellow-throat separated from its mate is rather reminiscent of the "Whee whee whee..." notes uttered by the isolated Yellow-throats I watched on March 3, 1959 (III, p. 7 of the notes on Pellioophorus).

I am also beginning to think that this species may really have lost all trace of a song pattern, or, at least, has a greatly reduced song complex. Possibly because the members of a pair stick together all year round. (It may also be significant that the Yellow-throat seems to be a follower rather than a leader in mixed flocks.)

Atlapetes, I.

March 23, 1960
Cerro Punta

Recently we have been paying particular attention to 1 pair, fairly low down on the mountain, on the upper edge of the llanos. Call this pair "B". There are also probably several other pairs we

territories adjoining that of pair B, (we know there is at least one other bird who occasionally meets pair B).

The B's are probably in fairly advanced breeding condition. Since we have seen one of the B birds carrying n.m.

Every time we flush the B birds, one or both flies away uttering ECN's. I am now fairly certain that the ECN's of this species are generalized frustration reactions — presumably of at least moderate intensity — rather than always the result of thwarted pairing or sexual motivation. At least some ECN's seem to be rather high intensity alarm reactions. One bird I disturbed today stayed in a thicket a few feet from me, hopping about very excitedly (but keeping facing me almost all the time), performing lots of TF's (and WF's), with CR (and probably some slight Jlf), and uttered lots & lots of typical ECN's, one right after the other in fairly rapid succession. The bill opened & closed with each ECN (revealing the rose-red inside the mouth quite conspicuously). Eventually this alarmed bird flew away to join its mate — without performing anything else in the way of display.

Several other times, when we disturbed pair B and/or their neighbors, in deep thickets where they were impossible to see adequately, the disturbed birds responded by uttering lots of ECN's and — almost certainly — uttering a series of "song" phrases. These were quite variable; but some of them might be transcribed by something like:

"Tree Tree Tree whee hoo" or
 "Tree Tree Tree hoo" or
 "Tree Tree Tree Tree whee hoo"

We never actually saw a Yellow-throat utter such song phrases.

but I am quite sure that these phrases were really being uttered by Yellow-throats. For 2 reasons. 1. The initial "Tee"s of the song phrases are almost identical with typical ECN's. 2. We only heard these song phrases when we knew Yellow-throats were quite close by.

Once I heard a burst of song when I thought there was a dispute between a pair and one or more of its neighbors in progress.

It seems likely, therefore, that some or all of the songs of this species are largely or completely hostile.

All the songs are comparatively soft and very thin-sounding — and quite remarkably neutrilogical, in the sense of being very difficult to locate precisely.

We went back to study pair B again this afternoon. I sat more or less obscured in the middle of a hedge, while David "drove" the pair past me 4 or 5 times. They never uttered anything except ECN's as they went past me — except once. (It is probably not surprising that they uttered almost nothing but ECN's this afternoon. It was the worst time of the day. And the pair was more or less associated with mixed feeding flocks most of the times they were near me.) The one exception was rather interesting. I suddenly became aware that the pair were uttering ECN's just behind me. I turned around to look at them. Just as I turned, one of the birds uttered an unmistakable brief R! I rather think that this must have been at least partly hostile. It is possible, however, that the birds had not recognized exactly what I was until I turned around completely. So this R may have been less strongly hostile, or lower intensity, than the song we heard this morning.

We only heard the song once this afternoon. This was when we

came upon the pair rather suddenly near their nest site. One of them uttered a single song phrase just as it flew away. One might expect the birds to be most strongly hostile near their nest-site.

I am now quite certain that this type of song is being uttered by these birds. I shouldn't be surprised, however, if they uttered other types as well.

It is also quite evident now that the Yellow-throats habitually follow or join the mixed flocks. They are seldom or never the leaders of such flocks, but they are more than just casual associates.

I have been struck this year by the similarities in general behavior between the Yellow-throated and Yellow-thighed Bush Finches. The Yellow-throats also occasionally go high into trees, and "flop" up & down vines & branches, in almost exactly the same way as the Yellow-thighs, although relatively less frequently.

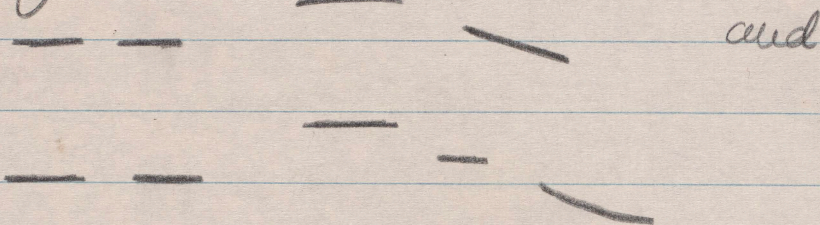
In both these respects, the Yellow-throats are quite different from the Chestnut-capped Bush Finches. I have never seen a Chestnut-Cap with a mixed flock — not even associated with Yellow-throats. And the Chestnut-Caps always remain on or close to the ground. They are far more skulking than the Yellow-throats.

A pair of Chestnut Caps passed by me when I was hidden in the thicket. Feeding quite casually on the ground. Undisturbed or unaware of my presence. All the time they were feeding they uttered nearly constant soft, thin, single "Tzee"s. Even thinner and softer than the ECN's of the Yellow-throats. Presumably "contact notes." They were not accompanied by the slightest trace of special ritualized postures or movements. No trace of either CR or Hf.

Atlapetes, T.

March 24, 1960
Cerro Punta

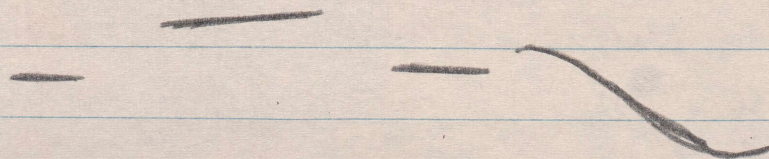
Just below the big bend of the road below Cerro Punta we came across an Atlapetes uttering ECN's and singing in a bush. Around 4:00 p.m. Some of these songs were essentially the same as those I heard yesterday further down the mountain. SE



With a very thin "Eeee..." quality.

We could not see the singing bird very well, so I crept around the bush — only to perceive 2 Yellow-throats and 2 Chestnut-capped !! I am sure that it was the Yellow-throat who was giving the song above.

As I came upon the birds, however, some one suddenly uttered some song phrases which seemed to be rather different. Stronger and more whistling. Less of the "Eeee..." quality. David says that the notes & pitch were like this:



It is possible that the latter phrases were uttered by one of the chestnut-capped birds.

Atlapetes, I.

(17)
March 26, 1960
Cerro Punta

We disturbed the pair of Yellow-throats near the upper part of the tree this morning. They then stayed hopping around in nearby bushes for several minutes. Absolutely no trace of song. They uttered CN's & ECN's when they were near us (i.e. when they were alarmed) and only CN's when they were farther away from us.

The ♂ and ♀ often became separated from one another during their hopping. There was certainly no trace of any "greeting" by either bird when they came together again. This is certainly a big difference from Phyllorhynchus.

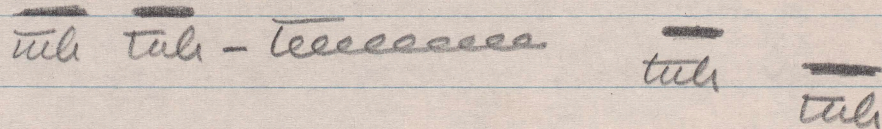
I am now quite certain, from my observations of many birds, that the CR and Shf of this species are indications of either alarm or hostility in general.

A "nervous" Yellow-throat is very apt to perform "intention movement of slight bowing." Bird stands with neck stretched upward, then abruptly lowers it so that the neck stretches straight forward (or even forward & downward, then upward again, then forward again). This may be very rigid & regular, and quite ritualized looking. It may actually function as a signal. (Similar movements are performed by many other Bush-finchies. This afternoon, for instance, we watched a single Peropetes behave in exactly the same way in similar circumstances.)

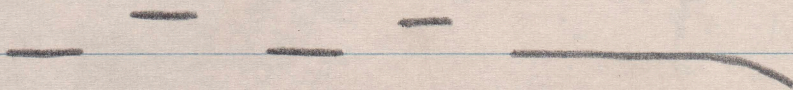
Atlapetes, ±March 28, 1960
Cerro Punta

We were walking along the road, near the great bend, very close to the spot where we heard the Atlapetes song on Mar. 25, 1960, when we suddenly heard a song from a bird hidden in a bush. I recognized this as an Atlapetes song at once — and also as the song of a Chestnut-Capped rather than a Yellow-throat. When we finally saw the bird, it turned out to be a Chestnut Capped, as expected. So we must be getting pretty expert in recognizing the songs of the species.

I am fairly certain that, when we first heard the bird (probably when we first disturbed it), it uttered a few song phrases which were organized in almost or exactly the same way as the commonest songs of the Yellow-throats.



Immediately after this, the songs became extremely variable. There did, however, seem to be one "basic" phrase. Which might perhaps be represented by the following diagram.



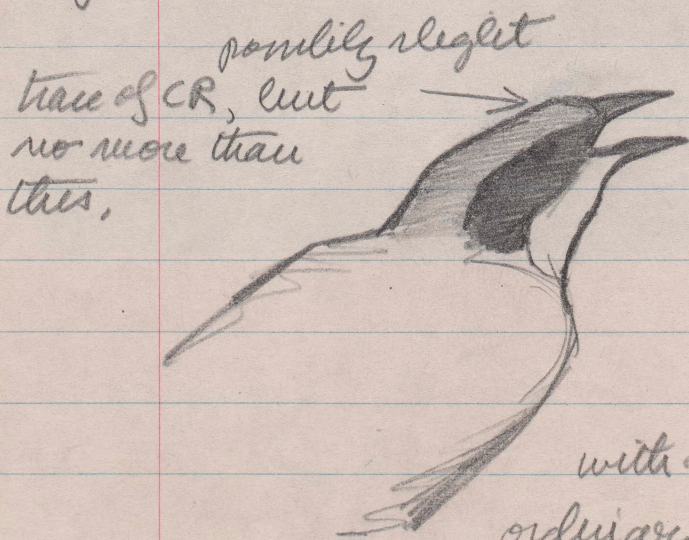
David would transcribe this as: "whee he whee he hee hee hee"
I think perhaps I would transcribe it as "tut tee tut tee tee"
If so, it would appear to be identical with the song described above on

Mar. 6, 1959, p. 3! Most of these basic phrases had a little terminal bit added. Sometimes just a single "he" or "tee" note. Sometimes a partial duplication of the end of the basic phrase, i.e. "he hee-hee-hee" or "tee teeeeeeeeeee". Perhaps

— — — — —
Sometimes a brief triple note which David would transcribe as "titawheeeeeee" ("tuh-ta-teeeeeee" ?). More often a double "tit wheeeeeee" ("tuh-teeeeeee" ?). (This latter double note was sometimes also uttered independently, apart from the basic phrase.) David is fairly sure that all the songs, at least those ending with a fairly long note tended to become lower in pitch at the end. I.E. the last note tended to become lower in pitch at the end.

All these songs were definitely stronger and more whistling than the songs of the Yellow-throats.

I only saw the bird actually singing once. Sitting with head & bill pointed diagonally upward, but with little or no CR or Mf



These songs were also intermingled with quite a lot of CA's. Apparently perfectly ordinary CA's. More or less "Tut"s.

Atlapetes, Mar. 28, 1960, III.

(20)

It is interesting that neither the Chestnut-Capped nor the Yellow-throated Atlapetes perform "greeting" songs when one male joins the other. In this respect, the rufinucha birds described above on Aug. 9, 1959, p. 9., may be intermediate between the Atlapetes sp. here and Preriophonus — just as they seem to be intermediate between Atlapetes and Chlorospingus in some other respects.

Atlapetes, I.

March 30, 1960
Cerro Punta

We caught two Yellow-throats in the nets this morning. Both quite silent, although they struggled vigorously and tried to bite.

It might be supposed that the absence of HAC in such circumstances, which seems to be characteristic of all bush-flickers and bush-tanagers except Anemon, was simply correlated with their gregarious habits, i.e. these birds might not be able to use a high intensity aggressive pattern, were it not for the fact that the Chestnut-Capped Atlapetes (and presumably the Orange-bellied Sparrow) are also quite silent when handled in the net.

March 31, 1960
Cerro Punta

We caught another pair of Yellow-throats in the nets this morning. Both quite silent when handled, as usual. One of the birds, however, (probably the ♂), performed repeated Gaping in my hand after I got him out of the net. The bill opening (quite widely) and closing, repeatedly, in a moderately fast rhythm. Accompanied by CR. This Ga

Atlapetes, Mar. 31, 1960, II.

(21)

looked almost like "panting", but the bird had certainly not been struggling enough to cause such prolonged and vigorous panting. So I think that it must have been a ritualized pattern. Perhaps the equivalent of the HAC of most tanagers? (Perhaps correlated with the fact that the members of a pair always stick very close to one another and separate pairs usually stay far apart.)

We caught the second bird (presumably the ♀) sometime after catching the first. When we put the second bird into a paper bag with the first, there was a sudden burst of moderately soft, twittering, "for mlers", warbling song from the bag. Quite reminiscent of the Yellow-throats!! Another indication that Atlapetes and Pelliopterus are related.

I also caught a Chestnut Capped (briefly, before it got away). It was also quite silent when handled.

Atlapetes, I.

May 21, 1960
Cerro Pichincha

This morning we watched a single rufinucha sitting high on a bare twig at the top of a tall tree, singing repeatedly. Presumably ♂.

His songs were most distinctive. A single phrase, very frequently repeated at intervals of a few minutes or seconds. All his song phrases this morning were essentially identical, but quite different from any songs I have heard from this species before. A single phrase might be represented as follows:

cheeoo cheeoo cheeoo chuk chuk

Atlapetes, May 21, 1960, II.

(22)

Many of this bird's song phrases were alternated with preening. Quite vigorous and autochthonous-looking. During the song phrases themselves the bird sat in a very fluffed posture which may have been an "intention movement" of preening.



Only moderate CR.

None of these songs
any other bird. The singing
away (perhaps frightened by us)

seemed to provoke any response from
bird eventually gave up and flew

Atlapetes, I.

May 25, 1960

Cerro Pulmuela

The ufunucha birds were a good deal more conspicuous & noisy here today than on May 21st. Advancing into reproductive condition?

The most interesting incident today was seen only by David. One bird landed beside another, presumably its mate (as there was no overt hostility between the 2 birds). One of the birds uttered some sort of "greeting song". David transcribes this as "zee wee zee wee" (Probably including 4 to 6 notes.) David describes this greeting song as a warbling whistle, very rapid (so much so that it almost ap

Atlapetes, May 25, 1960, II.

(23)

proached a rattle in rhythm).

Later in the morning, David observed one bird, apparently all by itself, utter a series of "rapid, loud, harsh" notes — which were almost certainly closely related to, or identical with, the notes I have transcribed as "cheeo" or "jeeo" on preceding pages.

Still later, we heard one bird utter another distinctive type of "song". (We couldn't actually see the bird when it uttered this vocalization, as it was hidden deep in a bush, but it flew out of the bush a few seconds later — followed by its mate.) This "song" began with 3 "Dzooee" notes, which were followed by an obscure warbling bit, which was followed, in turn, by a Rattle.

I must say that I am greatly impressed by the great variety of vocalizations of this species!

In mid-morning, we heard another burst of peculiar sounds which were probably uttered by this Atlapetes. Coming from deep inside a tall thicket. A whole burst of harsh notes. Uttered singly, or in doublets, or in triplets, or in quadruplets. — or — — or — — — or — — — Each one of these notes might be transcribed by something like "Wauh" or "Dauh". They all or almost all had a pronounced rattle undertone. They were quite reminiscent of the HAC Notes of many other species, but rather more mechanical sounding. They were occasionally interspersed with "cheeo" or "jeeo" whistles.

David saw an Atlapetes moving about in the bush when these sounds were being uttered, and the sounds seemed to move down the bush as the bird moved. Then the bird flew out of the bush and away. David said that he is almost certain it was a ufimucha. It looked comparatively pale and grayish underneath, but did seem to have (at least) a yellow throat.

Atlapetes, May 25, 1960, III.

(24)

After this bird left, there was at least one, and possibly two, birds left in the bush who continued to utter a few of the HAC-type Notes and "Teeoo" or "Cheeso" Notes.

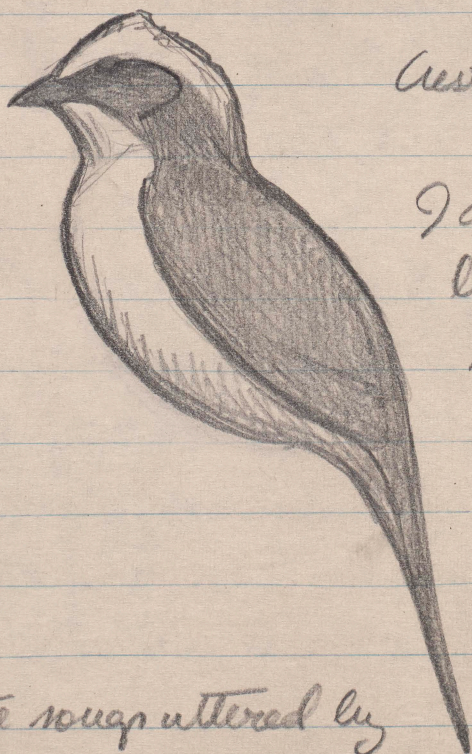
It is possible, therefore, that this incident was a territorial boundary dispute between neighboring refinuchas.

Atlapetes, I

May 26, 1960
Cerro Atacaso

We arrived at the usual place here just at dawn, before sunrise. At that time, there was a simple "dawn chorus" of Yellow bellies in progress. A bird singing every 10 or 20 yards. Usually moderately low in tall bushes or at the top of low bushes (it may be significant, in this connection, that it was very windy this morning).

I was only able to see one bird singing. It was in a posture *comme ça*



Post quite raised.

I couldn't see the wings very well; but they certainly weren't drooped very conspicuously.

The bird didn't seem to be very fluffed either.

All the songs uttered by all the birds were remarkably standardized. A typical song phrase might be represented as follows: "Chip Cheeso-cheeso-cheeso mmmmm". The pitch of a typical

Atlapetes, May 26, 1960, II

(25)

phrase was quite distinctive:

— — — — —
"chip" "cheeo"s Rattle.

The only variations in this phrase seemed to be relatively rare. The most common was omission of the terminal rattle. In a few cases, the song phrase was introduced by 2 preliminary "chip"s instead of 1. (A typical song phrase with 2 introductory notes and no rattle is presumably what the bird we watched on Pichincha on May 21 — see p. 21 — was uttering.) It is possible that some songs included an extra "cheeo" note, but I rather doubt it.

I don't know why the songs of the ♂'s today were so much less variable than the songs of the ♂ I watched in the same area last year — see notes of Aug. 7, 1959, pp 8-9. It is obvious, however, that the songs we heard this morning must be considered the typical "advertising" songs of the species (as this seems to be the beginning of the breeding season for most species here, and there were so many Yellow-bellies singing this morning).

Perhaps surprisingly, none of the singing birds performed any overt hostile or sexual patterns — as far as we could tell — during the period when singing was most intense.

The whole "dawn chorus" decreased abruptly at sunrise. We still heard an occasional song, rather weak-sounding, during the next half hour or so. And then complete silence!

Ataquetes, I

May 27, 1960
Ca de Maqueto

This morning we saw another ♂ Yellow-belly singing in a hedge down here. Before sunrise as usual. His songs were slightly different from those we heard yesterday on Atacaso. Might be represented as follows:

"Jeeyoo Jeeyoo Too-too-too"

Sometimes followed by a Rattle. Sometimes the second note was "Too-wee" — instead of "Jeeyoo".

As far as I could tell, the ♂ was sitting in his usual posture when uttering these notes. Not greatly fluffed.

I wonder if every local population of this species has its own slightly distinctive version of the local song pattern?

Cerro Pulmichia

This afternoon we went back to the usual place, and saw a little more Yellow-belly behavior — and something of another species.

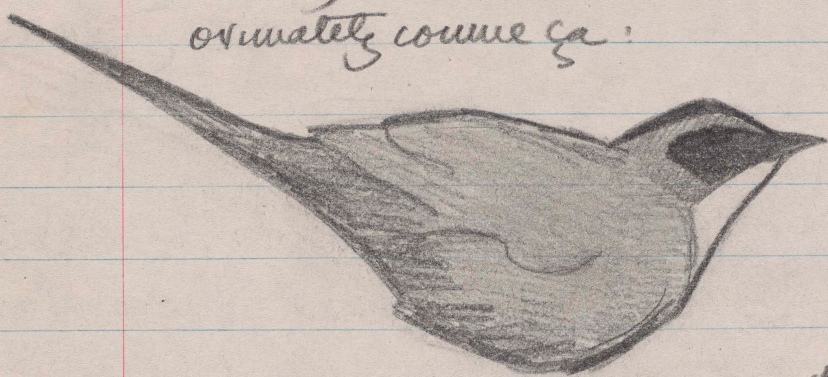
We probably heard another "greeting" song of the Yellow-bellies. A pair of birds moving about in the bush. (I didn't see them myself — but David is quite sure of their identity). When one bird apparently joined the other we heard a brief warble (probably the notes which David transcribed as "Zee wee zee wee..." on May 25), which was accelerated into a definite, high pitched but comparatively soft, rattle. Then the whole phrase, warble → rattle, was

Atlapetes, May 27, 1960, II.

(17)

repeated once, immediately (there was absolutely no pause between the successive phrases).

This afternoon I also got my first good view of another species which is almost certainly Atlapetes annularis (= ~~Atlapetes~~) (I caught a few brief glimpses of a pair of the same birds last year — but too brief and too obscurely to determine what they were.) This bird looked approximately comme ça:



Very Pezopetes-like in general effect.

Big-bodied.

Head black & slate gray. (The exact arrangement of black and gray

shown in this drawing may be slightly incorrect — as it was difficult to see in the light available this afternoon.) Very conspicuous white throat. Upper parts olive. Under parts gray, fading to olive posteriorly.

The only interesting patterns I saw this bird perform today were flicking movements. V-D TF's with a strong lateral component. Also WF's. These WF's were rarer than TF's, but when they did occur they were synchronized with TF's.

This species is much more like the Atlapetes spp. at Cerro Punta than like the Yellow-belly in general habits. Shulking. Moving on the ground or in low bushes. Comparatively silent (I have yet to identify any of its calls or notes.)

In case I have forgotten to mention it above, the Yellow-belly is not only comparatively noisy but also non-territorial. It is a bush loving species. I have yet to see it move on the ground, but it is usually found in bushes 2-10 ft off the ground.

Atlapetes, I.

May 29, 1960
Cerro Piculichia

We heard 2 Yellow-bellies singing here this morning (quite far apart — definitely not the same bird. Both gave essentially the same song. A complete typical song phrase was comme ça:

"Feeoo Feeoo cluk-cluk-cluk"

Occasionally an extra, fourth, "cluk" Note was added at the end. To my surprise, there was never any R added. (One of these birds singing today was almost certainly the same bird I heard singing on May 21, see p. 21. He didn't utter any R's then either)

Both birds also uttered lots of "miscellaneous" "Feeoo"s and "cluk"s. Either singly, or in series, or all mixed together in apparently random order.

In some cases, the terminal 3 or 4 "cluk"s were replaced by 3 or 4 "cheer"s, abbreviated whistles rather like the first "Feeoo" Notes but shorter.

I got one singing.

Two shown on it uttered a note, usually upward. The whistles were

Both one while singing. Yellow-bellies I have watched, they were quite



very good glimpse of one of the birds

In between songs it sat in the pos May 26, 1960, p. 24, but every time it definitely pointed its head diag.

CR was extreme throughout, and just very slightly drooped.

Birds appeared to be quite alert like the other Yellow-bellies during the

Atlapetes May 29, 1960, II

(27)

general period of song. A bird would first sit on one perch, sing, fly to another perch, sing, fly to a third perch, sing, etc. etc. During the actual moments the notes were uttered, however, it always sat quite still.

It seems obvious, now, that the "basic" structure of the song of this species is — — —

And I am more than ever convinced that each local population has developed its own local variant of song.

Atlapetes, I

May 30, 1960
Cerro Pichivila

This morning was cloudy, with occasional fog and/or rain, and we caught many more glimpses of Black-headed Bush-finch (assimilis), than on previous, largely sunny, mornings.

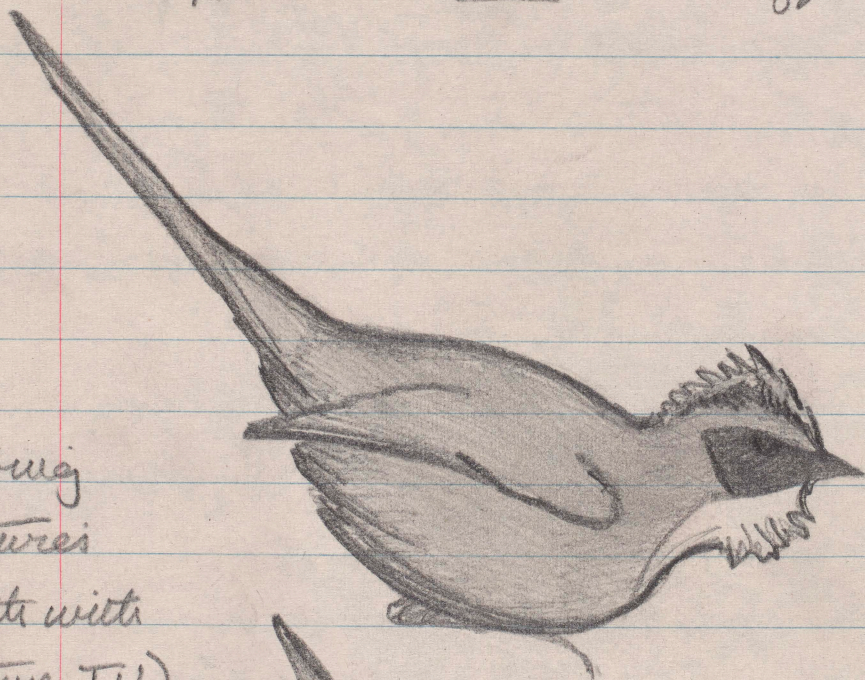
Usually we just surprised one bird, which flew or hopped away from us, with more or less CR. Always silent at all times.

Once, however, we came upon a pair. We didn't frighten them enough to make them fly away, but they were obviously alarmed by our presence, and went into elaborate display. Rather regular Bowing and rather regular Pivoting. The Bowing & Pivoting usually, but not always combined or synchronized. Tail usually definitely cocked upward (I shall call this "TV"). Extreme U-D TF's, with very strong lateral component, frequently superimposed upon the TV. No WF's. Instead the wings were held out from the body a little and kept motionless. The body plumage was only slightly fluffed, if at all. CR was very extreme. And there was a moderately extreme Thf! While perched, the birds also

always or almost always kept the "hues" bent, always or almost always sitting on their tarsi. The birds interrupted their Bowing and Pivoting from time to time, to hop or fly to a new perch, but they always resumed Bowing & Pivoting, with CR, Hf, etc., immediately upon landing again. (I imagine that they even maintained the CR & Hf when hopping or making only very short flights.) Throughout this whole performance, they kept their eyes on us; and one of them would hop to us from time to time in order to get a particularly good look.

The whole performance was obviously homologous with the "intents" or movement of slight bowing of Yellow-throated Atlapetes (see notes of Mar. 26, 1960, p. 17) but much more exaggerated and ritualized.

Bowing
Postures
(both with
extreme TV)



Low



High

Atlapetes, May 30, 1960, IV

(37)

These birds had CR when we watched them.

Once, when one bird flew and landed beside the other, one or both birds uttered the "Greeting" "Zee wee zee wee zee wee ..."

I have never seen any Yellow-belly perform ritualized Bowing or Pivoting or TV when alarmed. They may cock the tail a little, or perform comparatively slight and irregular bowing or pivoting movements, but all these patterns appear to be quite unritualized in form.

I have never noticed any Shif of the Yellow-bellies either.

Atlapetes, I.

May 31, 1960
Cerro Pichincha

We did most of our work near Hona today (see today's notes on D. glaucopis). This is 500 to 1000 ft lower than the other area where we have made our previous observations on Pichincha.

Yellow-bellies are surprisingly common near Hona. Both in the hedges on the edges of the road and cultivated fields, and in the heavy vegetation of the ravine of the river. There is at least one pair of Black-heads here also, in the lower margin of the shrubbery above the cultivated fields.

As a result of watching both species quite a bit today, both near Hona and in the area where we have worked before, I can corroborate my previous impressions of the habits of the 2 species. All the Yellow-bellies I have seen have been in bushes or low trees. Never feeding on the ground. But I have never seen Black-heads feed anywhere except on the ground. We have frequently seen them feeding on almost bare patches. The 2 species would seem to be strictly non-competitive.

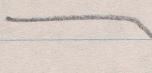
Both species are also completely non-gregarious. Always or almost

Atlapetes, May 31, 1960, II,

(33)

SS

always alone, or in pairs, or what appear to be family groups.

Early this morning, in exactly the same area where we have heard a ♂ Yellow-belly sing  type song on previous

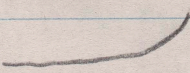
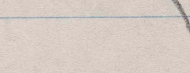
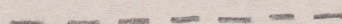
days, we heard the same type of song again. Obviously the same ♂, sticking to the same type of song for (at least) an appreciable period.

Atlapetes, I

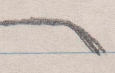
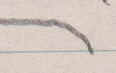
June 1, 1960
Cerro Pichuncha

Working near Hono again today.

Watched one Yellow-belly in particular, sang early this morning and then again at 4:30 p.m. this afternoon. Most of his songs were more or less like the ones we have heard other birds utter before (none of them included any terminal rattle), but a few of his song phrases were slightly peculiar. A complete phrase of this peculiar type might be represented as follows:

  
Tsooeee Tsooooo cha-cha-cha-cha-cha-cha-cha

(The number of "cha" notes at the end was quite variable — sometimes only one or two.) The bird sat in the usual singing posture while uttering this type of song. Always apparently alone.

All or almost all the Yellow-bellies we have seen singing this trip have been apparently alone. This would definitely indicate that the song of this species (at least the   part, without the rattle) is usually or always produced by the singing of some pairing and/or sexual drive.

Atlapetes, Jun. 1, 1960, II

(34)

Several times, both today and yesterday, we have observed more Yellow-bellies uttering "Dit", "Didit", and "Dididididi...." notes quite like those described above on May 30, 1960, p. 31. Some birds near water and others apparently alone. None of these birds appeared to be alarmed by us at the time; so I am now almost certain these notes are "ordinary" CN's rather than ALCN's.

Atlapetes, I

June 2, 1960
Cerro Pulwicha

Working near Hono again today.

This morning, from the time I arrived, at 6:00 a.m., until at least 7:00 a.m., there were Black-headed Atlapetes singing all over the place!!

I first became aware of this when a single Black-head flew across the road right in front of me. It uttered a lot of single "feeeeee" and "frrrrrrrr" Notes in flight, and then continued to give the same notes after it landed, out of sight, in the bushes. After it had landed, it also uttered a few doublet notes "fee - seeeeeeee" ———— intermingled with the single ones. Then it began to utter "soo - eeeeeeee" Notes instead of the previous "feeeeee" and "frrrrrrrr" Notes. All these notes were relatively clear and whistle-like, and at least moderately loud. The bird continued to utter "soo - eeeeeeee" Notes for quite a long time. They appeared to be essentially single notes, repeated at fairly distinct and rather regular intervals. Comme ça:

I could never get a good view of this bird while it was uttering these notes; but it was obvious (from the sound of the notes — and from the

few glimpses I did manage to get) that all or most of these notes were uttered when the bird was on the ground or (less probable) when it was in low bushes very close to the ground.

At this point, I began to think that the "foo-eeeeeee" Notes might be the song of the species, and I tried to track down the bird by moving through the bushes. This apparently frightened the bird. It immediately fell silent and moved away from me. Then it started to utter "foo-eeeeeee" notes, as before, about 10 yds further away.

This incident would indicate that the "foo-eeeeeee" Notes can not be a form of alarm — and might suggest that they are not hostile.

A few minutes later, I heard similar "foo-eeeeeee" Notes coming from low inside very shrubby vegetation, in an entirely different place! I never caught the briefest glimpse of the bird uttering these notes. But the area from whence the notes were coming was an area where we saw a pair of Black-headed Atlapetes a couple of days ago.

Still later I surprised a single Black-head feeding on a path. It immediately flew into a nearby bush, and, after a brief pause, began to utter "foo-eeeeeee" Notes just like the other birds. Again, I couldn't see it while it was actually uttering the notes. This bird gradually moved off through or under the bushes, still uttering the same notes as it went.

Finally, at a fourth spot, I heard identical "foo-eeeeeee" Notes, again coming from low in the vegetation or the ground. I am sure that this bird was not aware of my presence for a long time. It sat or stood in the same spot for at least several minutes, uttering the notes quite regularly. Again, I was unable to see the bird. When I moved forward to try to get a glimpse of it, it immediately fell silent.

All these incidents would indicate that the series of single "foo-eeeeeee" Notes are really the "advertising" song of the species. Pres

Atlapetes, Jun. 2, 1960, III.

(36)

usually produced by thwarting of some pairing and/or sexual drive(s). It is probably significant that both birds I saw put before they began uttering "Too-eeeeeee" Notes, or in the intervals, between notes, were apparently single.

The Yellow-bellies were singing even more intensely this morning. Quite commonly until well after 7:30 a.m. The usual variety of songs for the birds of this area. Still without rattles. The length of time the birds sing here would suggest that they are more advanced in the breeding cycle than the birds we heard on Cerro Atascoso. Perhaps the absence of the presumably hostile rattle at the end of songs is merely an indication of a relatively advanced stage of the cycle?

I heard lots more CN's and "greetings", like we heard before, uttered by quite a number of birds this morning. Most frequently uttered by some birds which appeared to be moving about in a party of 4, perhaps a family party. It is my impression that both the CN's and the typical "greeting" sounds are usually most common in such parties.

Twice I heard one bird utter some more distinctive sounds, apparently as "greeting" when it joined its mate. This peculiar "greeting" was a real "warble", a very rapid "Tit-it-it-it-zeeaa-zeeaa-zeeaa-zeeaa". Perhaps a peculiar combination of ordinary CN's and typical "greeting" notes ???

The bill of this species is really quite large and thick - for an Atlapetes.

I noticed this morning that the feathers of the crown are really conspicuously separated during CR's.

This afternoon I heard what was apparently a Black-headed Atlapetes begin to sing around 4:30 p.m. Mostly "Too-eeeeeee" Notes, intermingled with an occasional "feeeeeee". Listening close up, it was appar-

Atlapetes, Jun. 2, 1960, IV.

(317)

but that some, but not all, of the "soo-eeeeee" Notes were really more like "Ja-soo-eeeeee".

In connection with the song of the Yellow-belly, it may be significant that the usual song of the Andean Sparrows here is 2 whistles followed by a rattle. — Atlapetes and Zonotrichia may be not too distantly related.

Atlapetes, I.

October 3, 1960
Cerro Punta

Watching a mixed flock, just below the big bend in the road where I have done so much observing on previous visits here. Suddenly a Yellow-throated Atlapetes flew out of a hedge on one side of the road and landed in a bush on the other side. (It may have been joining its mate in the bush, but I am not sure about this.) In any case, it apparently uttered a very soft "song" immediately upon landing in the bush. This might be transcribed as "Tree tree tree tree tree tree tree tree tree tree ...". Probably accelerating. Rather twittering in general effect. Rather reminiscent of the Wbl of Prelliophorus. Probably even more like the "greeting" vocalizations of the Yellow-bellies in Ecuador.

It is beginning to look as if this species may have almost as many different types of "song" as the Yellow-belly.

I wonder if the extreme softness of the songs of the Yellow-throats might be explained as follows. They are essentially followers in mixed flocks. Perhaps disadvantageous for them to attract other species — rather than the reverse. Their original song may have been loud and Prelliophorus-like. But, as the Bush-tanagers seem to have developed a positive reaction to Prelliophorus songs, the Yellow-throats have had to modify

Atlapetes, Oct. 3, 1960, II.

(38)

y their songs somehow. Probably reduced the loudness of their songs, instead of developing a different type of loud song, because our loud vocalization is attractive to other species, to some extent (even apart from such special reactions as the Bush-tanager \rightarrow *Pellaeophanes ruficeps*).

Atlapetes, I

October 6, 1960

Cerro Punta

I was walking through some badly cut-over old forest, with a lot of low and thick shrubbery around, when I suddenly saw one Yellow-throat hopping around excitedly in a tangle, about 6 ft off the ground. During this hopping it frequently assumed a real st. Posture *comme ça*:



Possibly head even more nearly vertical

Looking very long and thin

Not sure about angle of tail. Possibly straight down. Possibly more in line with head and body. Probably variable

This looked very much of slight bowing, but was much

like the high position during int. mov. more exaggerated

During all this hopping about a st. Postures, the bird uttered a continuous series of relatively very loud ECN's: _____

As far as I could tell, its bill did not open and close with the notes

Atlapetes, Oct. 6, 1960, II.

(39)

It was difficult to get a clear view of the bird during this performance, but it did not seem to have the slightest trace of CR or any sort of throat-fluffing. Rather surprising.

After watching this bird a few seconds, I suddenly saw that there was another bird about 3 ft away from it. Also hopping about, and frequently assuming extreme St. Postures. But apparently silent throughout.

During all this hopping about, the two birds usually managed to stay facing one another, i.e. displaying their yellow throat patches to one another.

Then the second bird suddenly flew at the first, and there was a violent contact fight between the 2 birds, tumbling about in the air. Both remained absolutely silent throughout. No trace of R or HAC. Then both flew away and were lost to sight.

The fact that the bird who was attacked was the one who had been uttering ECN's might suggest that the ECN's are produced when escape is at least as strong as, or even stronger than, attack.

In any case, one of the birds was back in the same tangle after a few seconds, hopping about, assuming St Postures, and uttering ECN's, just like the first bird before the fight. But it soon flew away again, presumably because no other bird appeared.

Atlapetes, I.

October 17, 1960

Cerro Punta

Both the day before yesterday and today I heard Atlapetes-type songs coming from a hedge near the great bend of the road. Today I finally managed to see the birds. They were Chestnut Capped Bush-finches. Both the day before yesterday and today, the bird(s) were singing when I arrived in the area, around 6:15 a.m., and continued for about 15 minutes (dawn

Atlapetes, Oct. 17, 1960, II.

(40)

songs are obviously characteristic of bush-inhabiting finches, both atlapetes and Aimophila. Why?)

All or most of the songs I heard the day before yesterday were more or less comme ça:

"dub dub-dub

dub dub-dub tseeeeeeeeeee

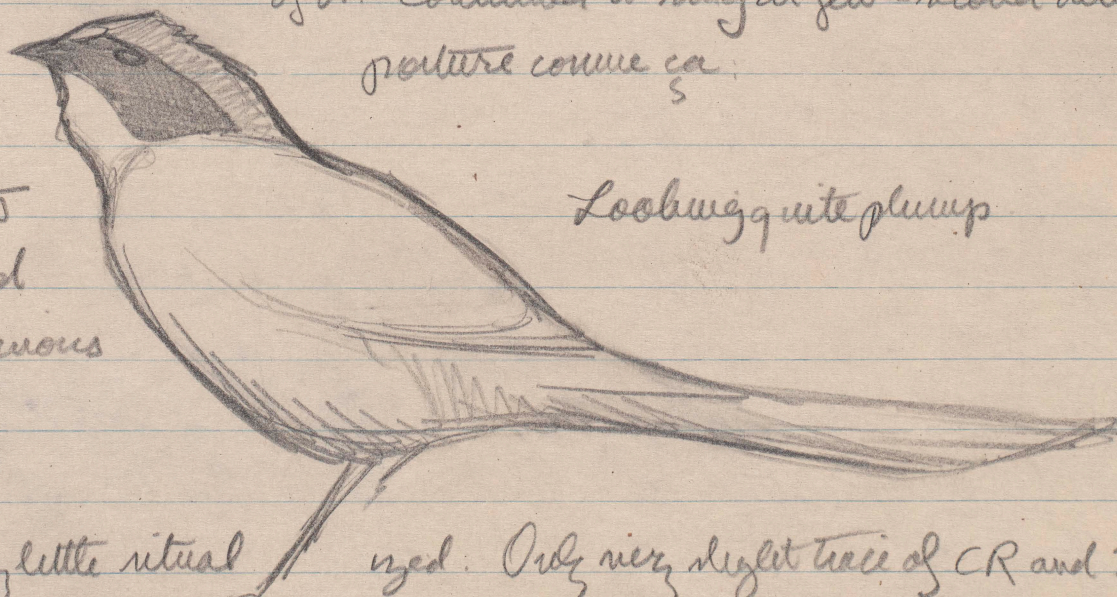
When I first arrived this morning, most of the songs coming from the hedge were more or less comme ça:

"dub ta-eeeeeeeeee ta-eeeeeeeeee"

Then one of the singing birds (perhaps the only one who had been singing in the hedge) flew across the road. Landed in a thicket, where I caught several decent views of it. Continued to sing at few-second intervals. In posture comme ça:

White spots
on forehead
very conspicuous

Looking quite plump



Obviously very little ritualized. Only very slight trace of CR and Thff. After flying across the road, I think the bird continued to utter song phrases just like the ones it uttered in the hedge before hand.

Surprisingly enough, another bird in the hedge (presumably the mate

Atlapetes, Oct. 17, 1960, III.

(41)

of the bird who flew across the road) then began to sing "in response" to the bird who had flown across the road. I think this second bird's song phrases were more or less exactly like those of the first.

After a while the second bird stopped singing, but the bird who had flown across the road continued to sing frequently. By this time, however, I noticed that its song phrases were slightly different. Comme ça:

"dub dub dub dub dub"

(The transcriptions of all these songs may be slightly misleading in one respect. All the notes of all the songs by both birds were thin, clear, high, whistles. Very reminiscent of ECN's in quality.)

This continued for at least 2 or 3 minutes. Finally the second bird flew across the road also, and landed about 10 yards from the first. The first immediately stopped singing. Then the two birds hopped toward one another, through the brush, and presumably re-joined one another, although I could not see them any more at this stage. Perhaps significantly, I did not hear any sort of "greeting" song when they presumably met.

This incident would suggest that both the ♂ and ♀ of this species can sing, but that one sex does so more often than the other.

It is obvious that this species has a great variety of different types of song, like related species.

This afternoon I disturbed a pair of Yellow-throats, coming upon them rather unexpectedly. One bird stood in the open and watched me for several minutes. Frequently stood in the posture diagram on p. 4 above, with extreme CR. Also made int. mov. of flight bowing movements.

I think that CR must be an indication of a relatively strong escape drive. This bird was obviously nervous about me.

Atlapetes, I

October 9, 1960
Cerro Punta

In my notes of Oct. 8th, 1960, on Pezapetes, I suggested that the Yellow-throated Bush-finch might also be breeding at this season of the year. I should add, therefore, that I saw a group of 3 Yellow-throats moving about together this morning, near the upper pasture, so they presumably are not breeding now.

I still don't understand why these Yellow-throats near the upper pasture do not join the mixed flocks.

Atlapetes, I

April 11, 1961
Cerro Punta

I have caught a few brief glimpses of Yellow-throats, usually or always solitary birds, from time to time in the course of my observations of other species during the last 4 days.

This morning, I saw one Yellow-throat carry n.m. several times to a bush very near the nest of the B Yellow-throated Cree yesterday's notes on Pulliopterus). Quite silent. Not accompanied by mate.

So it seems likely that all or most of the Yellow-throats around here are nesting now.

Yesterday morning, just at dawn, I saw a single Yellow-throat sitting very high, on an exposed bare branch of a tall tree, near the area where I saw the Yellow-throat nest-building today. Sat there for at least 5 minutes, in an apparently unritualized posture. Apparently silent. This is the only time I have ever seen a Yellow-throat so "exposed". Quite reminiscent of sooty-capped Bush-tanagers.

Atlapetes, Apr. 11, 1961, II.

(43)

A couple of days ago I surprised a Yellow-throat in a thicket standing in an extreme St. Posture. Quite like the posture drawn on Oct. 26, 1960, p. 38, but throat more fluffed (evenly rounded in outline). This posture may have been intermediate between the St. Posture drawn on Oct. 26, 1960, and the posture drawn on Mar. 12, 1959, p. 4. No CR. The bird was definitely quite silent as long as it remained in this posture. Then it flew off and disappeared from sight.

I don't know if this St. was provoked by me or by some other bird(s) in the neighborhood.

This afternoon, much to my surprise, I saw 3 Yellow-throats moving about together, without any signs of hostility. Does this mean that some birds of this species breed at different times of the year here?

I also surprised one bird in a bush. It stood quite close to me, uttering lots of hard "Tut" CN's. Performed a number of irregular and unritualized-looking bowing and pivoting movements. All this with just slight CR and Shf.

Atlapetes, I.

April 13, 1961

Cerro Punta

I came across a pair of Chestnut-capped Atlapetes early this morning. In a thicket about half way between the upper pasture and Cerro Punta. I shall call this pair "A". They seemed to be quite tame. Spent most of their time feeding quite close together.

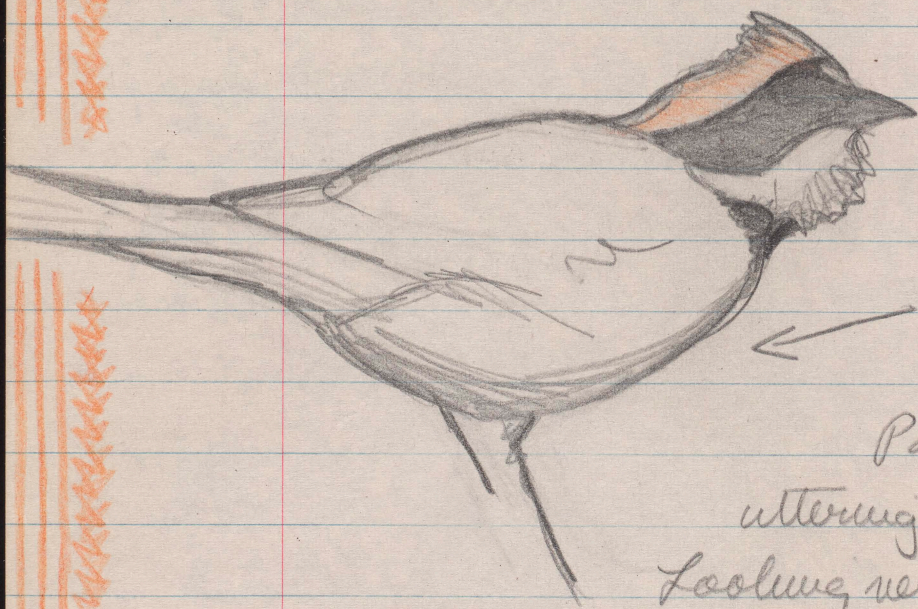
During feeding, they flicked leaves aside with their bills and picked at food with their bills without flicking. No scratching hops like Pezopetes.

Most of the time I watched the birds, one or both uttered faint

Atlapetes, Apr. 13, 1961, II

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but sharp "Tut" Notes. There may have been CN's or AlCN's. (I rather think the latter.) Every once in a while, one of the birds would hop closer, obviously to get a better look at me. At such times, it had a more or less extreme CR, and (always or almost always, extreme Shiff. At such times, it also tended to perform a few irregular but rather unritualized-looking bowing and pivoting movements. With quite extreme WF's and TF's. (I think that both the WF's and TF's of this species are quite like Pralliopterus. The tail was certainly also spread most of the time the bird was near me.) The bird continued to utter "Tut"s as before whenever it came close to me.



Notice curve of "mask"

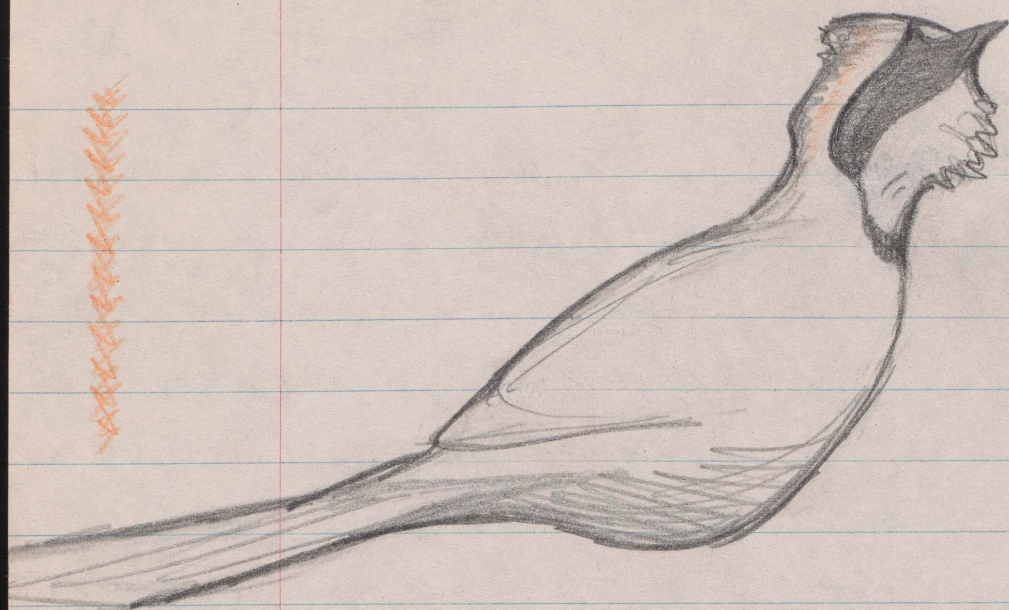
Body probably too small

Part of the time the bird was near me uttering "Tut"s, it kept the neck retracted. Looking very plump and big-bodied. As in drawing above. It remained in this posture even when it performed slight bowing and pivoting movements.

Only once or twice did the bird perform bowing which was almost as extreme as some of the Bowing of asinilis and Pezopetes I have seen. At such times, the neck was definitely stretched. See drawing on next page.

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High bow posture.

Later in the morning, I suddenly became aware that one of the Chestnut-capped Atlapetes was "singing" quite loudly. Comme ça:
"3a- woooooeeeee 3a- woooooeeeee 3a- woooooeeeee"
nnnn nnnn nnnn

Repeated again & again. The second note of each doublet had a definite rattle undertone. Much stronger & louder (almost pure R) in the second note of the last doublet. Unfortunately, I could not see the bird well while it uttered this vocalization. I was, however, able to determine that the bird was perched in a tangle of vines, at least 8 feet above the ground, while it uttered this vocalization. This is by far the highest I have ever seen a Chestnut-capped Atlapetes. The bird also seemed to be alone (I don't know what happened to its mate). But then a sudden aerial chase and fight developed! I couldn't catch the details of this. Certainly involved 2 birds. Certainly one Chestnut-capped and possibly another Chestnut-capped or a flycatcher.

(I am fairly certain that the bird uttering these "3a- woooooeeeee
3a- woooooeeeee 3a- woooooeeeee" vocalizations had considerable

thrust, and it probably had some (R also.)

Both birds of the pair were back a few minutes later. Behavior

Atlapetes, Apr. 13, 1961, V.

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Incidentally - I forgot to mention - but I suppose that most of the "Ja-zzzzzzzzz" Notes I heard today (at least the ones without the rattle undertone) were the same as the notes I transcribed as "ta-zzzzzzzzz" and "tuh-zzzzzzzzz" before.

Atlapetes, I.

April 14, 1961

Cerro Punta

This morning I watched the same pair of Chestnut-capped Atlapetes as yesterday. Behaving in much the same way as yesterday.

One bird became separated from the other while they fed. (It flew across an irrigation channel). The bird which left its mate then started to utter "songs". Quite variable, but mostly comme ça:

"Ja ta zzzzzzzzzzz ta-ta"

The last notes (the "Ja-ta"s) were usually louder than the rest (and lower pitched than the preceding long note).

Sometimes the bird uttered "abbreviated" songs. More or less comme ça "zzzzzzzzzz zzzzzzzzz"

There was a faint rattle undertone to some of the "zzzzzzzzzz" Notes in both types of songs.

All these songs were accompanied by some CR and Thflff - but this may not have been very significant (the birds always seem to have some CR and Thflff whenever I see them).

As in the case of Phylliophorus (see today's notes on P.), I wonder if the long "zzzzzzzzzz" Notes in the "songs" of the Chestnut-capped Atlapetes are really essentially SAV's?

Later in the morning, the 2 birds of this pair of Chestnut-capped became separated again. One of them immediately began to sing, more

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or less in the same way as earlier this morning, and in the same way I have heard other Chestnut-capped nugs on previous years. Lots of their high "Zzzzzzzzzzz" notes, and also lots of shorter "duli" or "ta" notes. Somewhat variable in arrangement. No appreciable rattle undertone. Then the bird came closer to me, continuing to sing all the while. When it was quite closer to me, its songs became "Tut tut taaaaaauh", frequently repeated. With a definite rattle undertone. This would certainly confirm my impression that the rattle undertone is essentially hostile.

I think that all the "songs" of this species might be interpreted as combinations of CN's and SN's, with R's in some cases.

Atlapetes, I.

April 15, 1961

Cerro Punta

Watching birds in the area halfway between the upper pasture and Cerro Punta again this morning.

I arrived rather early (ca. 6:15 a.m.), and found, much to my surprise, that the Yellow-throated Atlapetes has a "dawn song" very much like the "Keeyoo" song of the Sangre de Toros, the "Whew" song of the Buff-throated Saltator, and the "Kew" song of the Shalced Saltator.

I either heard 2 different Yellow-throats uttering "dawn song" or (less probably) the same bird uttering "dawn song" in 2 different places, quite far apart from one another. In any case, I heard 2 long bursts of this "dawn song". I did not see the bird uttering the first burst, but I caught a few glimpses of the bird uttering the second burst. Both bursts were uttered by bird(s) perched fairly high (5-10

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Every time the bird uttered a note (both "Kew"s and "Keeyah"s, it raised one or both wings. (I think both, but I can't be sure of this). This raising was one slow, stiff-looking movement. No G. The wing(s) raised well above the level of the back (and probably held out too, but I couldn't see this from my point of view). The wing(s) were apparently closed, and folded away, completely between successive notes. The bird did WR both when it was perched and when it was moving. (The wing on the side near me looked dark underneath when raised, but this may have been an optical illusion.)

Apart from this WR, the bird uttering the second burst of "dawn song" did not perform any special ritualized movement. The "dawn song" was accompanied by CR and some Shiff (which were apparently maintained between notes and WR). The bird looked big-headed, with a small plump body. I think the tail was kept more or less fanned throughout. I do not remember noticing any TF's. The bird seemed to be more or less hunched throughout the performance, but I don't know if this was ritualized or not. Aside from this slight "hunching", its postures appeared to be unritualized sitting & hopping postures.

I think this WR must be closely related to the G of male Brown-capped Bush-tanagers during their early morning "Tut"-G performances (the ♂ Brown-caps also raise the wings above the back during the G of their "dawn songs".)

The bird(s) uttering both the bursts of "dawn song" this morning appeared to be quite alone, without any mate in the neighborhood. This is what would be expected.

All the "dawn song" of the Yellow-throats seemed to be over by 6:30 this morning. I did not see the bird(s) again later in the morning.

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always with a strong lateral component. When moving about normally (undisturbed), the birds perform few or no WF's. (I imagine, however, that the species may perform WF's when "upset" — like other bush-finches.)

Atlapetes, I.

April 16, 1961

Cerro Punta

I went back to the same place again this morning. Arriving early, around 6:10 a.m. When I arrived a Yellow-throat was uttering "dawn song" in exactly the same spot I first heard the "dawn song" yesterday. The bird was very well hidden, and I never even caught a glimpse of it. The song itself was exactly the same as the one I heard yesterday. "Kew" is definitely higher pitched than "Keeyah". I finally flushed the singing bird, without, however, actually seeing it. Then, a few moments later, I heard a Yellow-throat uttering the "dawn song" in exactly the same place I heard the second burst of singing yesterday. But again I was unable to see the bird. It finally stopped singing without my ever catching a glimpse of it.

Then, a few minutes later, at 6:37 a.m., I saw a Yellow-throat perched in a quite high exposed position (about 15 feet off the ground) uttering a few "scattered" "Kew" and "Keeyah" Notes. Comme ça: "Kew, Keeyah Kew Kew, Keeyah". Presumably the lowest intensity version of the dawn song. With CR and Th flff. Bill opening & closing with each note. No WR. One WF with one of the notes. Then the bird flew away without doing anything more.

Atlapetes, I

May 24, 1961
Quito

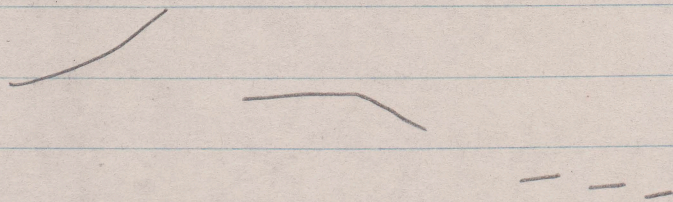
During the last few days, I have seen quite a lot of refinucha near Hono, near Inaquito, and on Atacaso, in the same places we saw them on previous years.

I have seen a lot of ♂'s singing alone, both in the early morning and in the evenings. (I am certain now that ♂'s of this species never sing except when they are unmated or separated from their mates.) It is obvious, however, that almost all the birds are mated now. The birds which sing usually or always join, or are joined by, their mates eventually.

I have even seen one apparent family group. A pair of adults followed by a (dull) juvenile!

I have only studied the songs at Inaquito and on Atacaso. In both places, the morning songs of all the birds were essentially "Wheoo wheoo tut-tut-tut". This is just what I considered to be the "basic skeleton" of the song last year!

I think there is only one refinucha singing at Inaquito this year. His songs have been quite remarkably stereotyped. His songs have never included Rattles. He usually utters the typical "Wheoo wheoo tut-tut-tut" and nothing else. I would diagram his typical songs as follows:



This is somewhat different from my diagrams of typical songs last year. The only variations in song which this bird has shown this year

Atlapetes, May 24, 1961, II.

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2 have been the occasional addition of a third, whistle-like, "Wheeso" note, right after the first two, and/or the occasional omission of one of the terminal "Trit" Notes.

I only observed the birds on Atacaso this morning. Just at dawn, at least three birds began to utter typical "Wheeso wheeso trit-trit-trit" songs. Again no Rattle. Then, a few minutes after dawn, some or all of them began to add Rattles to their songs. Comme ça: "Wheeso wheeso chip chip chip mmmmm."

This difference between the songs of the Magnito bird and those of the Atacaso birds is the same as last year. Last year, I suggested that the incorporation of hostile R's into the song of the Atacaso birds was an indication that they were comparatively retarded in the breeding cycle. This may well be true. If so, the sex or pairing drives of the Atacaso birds this morning must have been relatively stronger (in comparison with their hostile drives) just at dawn than a few moments later (This is probably not surprising. I think the birds start to move around a bit just after dawn. They may then become more conscious of other ♂'s in the neighborhood.)

I have several times heard ♂ rufinucha singing as they moved along ledges or through thickets. This tendency to sing while moving may be a significant resemblance to gutturales.

The only bird I have been able to see very well while singing is the Magnito bird. Flight CR. Bill opening and closing with each note of the songs. No trace of wing movements like those of gutturales.

I have been paying special attention to the Call Notes and similar notes uttered by the birds apart from song.

Both single birds and pairs sometimes utter single "Trit" notes when they are hopping in thickets and/or flying. These notes are

Atlapetes, May 24, 1961, IV.

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I saw one particularly interesting incident at Maquinto on May 22. One rufinucha was munging in a hedge. Then he suddenly flew up, uttering "Trit trit trit" or "Tuk tuk tuk" Notes, and flew to a bush several yards away, where he landed beside another rufinucha. Unfortunately, I couldn't see the birds in the bush; but I heard a lot of "Zeees" Notes & R's coming from the bush immediately after the ♂ landed. Then the ♂ flew up, perched in a tree above the bush, uttered one long R, and then flew back to the hedge, with "Trit"s or "Tuk"s as before. A few moments later he began to mung again.

This incident might suggest that "Trit"s are just plain hostile.

Atlapetes, I.

May 25, 1961
Cerro Pichincha

Observing near Hono again this evening.

I heard 2 more "greetings" between the members of pairs of rufinucha. Definitely 2 different pairs. Each time the "greeting" was uttered by only one bird of the pair, when one bird landed beside the other. I was not able to tell if it was uttered by the landing bird or the bird landed beside. Both greetings were essentially similar. "Zee wee zee wee zee wee zee wee". One much louder than the other.

I should stress that these "greeting" notes were quite clear and hard. Almost semi-R. Not at all hoarse. I.E. such "greetings" are probably not strictly homologous with the CHAC of other species.

Atlapetes, I.

February 4, 1962
Barro Colorado

I have had some Yellow throats for a long time, with
 out watching them. A pair (sexes unknown) in a cage by themselves
 with birds of other species. And a single bird (also of unknown
 sex) in a cage by itself without any birds of other species. This
 morning, we banded all the birds. The single bird was banded red.
 The others were banded pink and green. Going to put pink and
 green in red's cage, with red.

All released 9:30 a.m. Newcomers fly to side of cage. Pair
 is struck. Hop about a little. With CR, slight Thflff. Largely
 silent. Once one utters brief "Tee hee hee" when lands beside the
 other. "Greeting"?

Red stands in rather high bow posture, with little CR and
 no Thflff. Retreats when newcomer advances. Then does a little
 irregular, unritualized, bowing. Then just stands.

Can't see birds awfully well.

All silent ever since the "Greeting".

Red now doing quite a lot of bowing, with slight Thflff and
 only a trace of CR.

Pink hopping about in corner. With extreme CR. Slight
 Thflff. Green near by. In st posture, moderately extreme, no CR or
 Thflff. Doing brief bowing movements occasionally. I presume green
 is ♂. Less alarmed than pink, who is presumably ♀.

Every once in a while one or both of the pink and green birds ut-
 ters "Greeting" when they come close together. As before. Perhaps a little
 more prolonged. Definitely twittering in effect. Might be transcribed

as "Whee whee whee whee whee"

Then a few more abbreviated "Greetings" "Whee whee whee" or "Whee whee" 3-note type most common.

Red still just standing 9:40. Very slight Hflff and even slighter CR. Making occasional bowing movements. Green & pink just flying back & forth on far side of cage. Pink still with extreme CR, no Hflff. Green with neither CR nor Hflff. Green not really in ft, when perched between flights. But occasionally points bill diagonally upward (whole rest of body remains as in ordinary perching posture) when pink comes close to (him). Red then spends most of time perching at bar on leg.

"Greetings" are not uttered by pink and/or green whenever they come together. Apparently uttered only when green lands beside pink. Probably uttered by green.

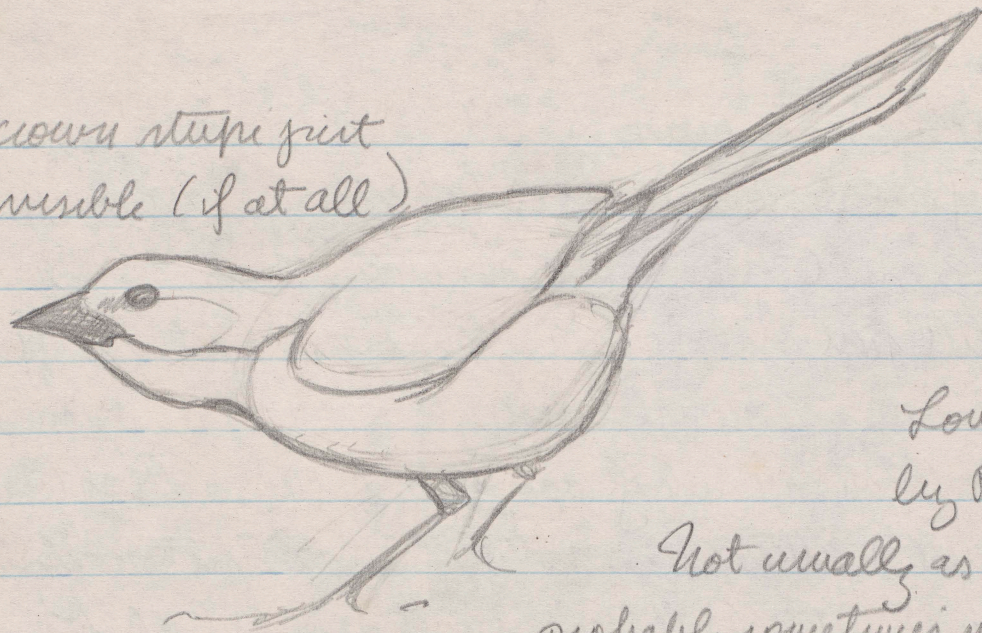
The reactions of the birds so far would indicate that CR is purely an expression of escape, that Hflff is more aggressive than CR, that both CR and Hflff are probably low intensity, that ft is probably fairly high intensity and may contain an appreciable attack component, and that "Greetings" are probably inhibited by a strong escape tendency.

Sudden brief fight 10:00 a.m. Aerial chase. Can't see who started it or who is involved. Quite silent. Breaks up immediately. Birds behaving as before. Red still bowing. But no CR or Hflff. Occasional slight gaping, but this is probably panting. Tail fanned. Legs flexed (knees visible).

Atlapetes, Feb. 4, 1962, III

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White crown stripe just
barely visible (if at all)



Low Bow posture
by Red

Not usually as extreme as this (but
probably sometimes more so)

High bow posture is essentially similar to St except that the
feathers of the belly are not smoothed flat in the high bow as they are in
the St

Behavior of birds still essentially unchanged 10:15 a.m.

I think a "greeting" is uttered every time green joins pink.

One of the birds (Red, I think) occasionally utters single ECN-
type note. Doesn't seem to lead to anything.

Pink (nc) supplants red, without obvious signs of hostility
at 10:25 a.m.

I think red is low man in the hierarchy, but it doesn't seem
to be too upset by it all.

Yes, it is definitely red who is uttering the ECN's.



Front view CR

Atlapetes, Feb. 4, 1962, IV.

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One of the green & pink pair suddenly picks up large leaf and starts to fly around with it. !!! Silent. Then drops leaf 10:45

Then does it again & again. It is green! Each time eventually flies to perch where red is. Red flies away each time. Then green stands. Usually in more or less extreme st. Still holding nest material in bill. Make occasional very rapid & brief downward bowing movements. Then flies away & drops n.m. All quite silent.

Legs are extended as much as possible in st. (This is probably another difference from the usual high bow posture)

(Correction. Once the n.m. picked up by green was a tuft of dry grass, not a large leaf.)

10:55. Green starts hopping after pink, on ground and in bushes. Very rapid. "Greeting" each time green lands. This is beginning to look hostile, purely hostile! Develops into something very like a chase.

Then green hops after red. Green does brief st. each time it lands during this! Pursuit slower than previous pursuit of pink. Silent.

Then green goes back to hopping after pink, with "Greetings".

Pink has kept CR all the time it has been in this cage.

Green continues assuming st. Postures brief (usually with brief downward bowing movements) while all 3 birds feed on ground. Somewhat difficult to tell just who these are directed to. I rather presume Red. Don't seem to provoke any response 11:07.

Goes back to following pink. Silent. No display. Pink escapes each time green comes close. Rapid flight. After a while pink seems to get tired. Doesn't always flee when green approaches. Then green just stands near pink, making more or less irregular bowing movements, with

Atlapetes, Feb. 4, 1962, IV

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out display. But chase always resumed again shortly

Leaving 11:15 a.m.

After leaving, I gave instructions to have pink taken
out of the cage. Put in a large cage with other species.

Atlapetes, I.

February 5, 1962
Barro Colorado

Arrive in front of green & red cage 6:30 a.m. In blind
Still too dark to see much.

Birds obviously frightened. Clinging to wire on far side
of cage. Can they see me? Then start to relax a little 8:40.

One or both uttering occasional ECN-type notes.

Birds not usually together

Interrupted by boy collecting food dishes 6:48.

Both birds still greatly pre-occupied with their bands.

One more or less following the other. Hopping slowly. No display.
Looks as if they are more or less friendly. Then both sit. Then one advances
toward the other (probably reversing original following role).

The other bird retreats immediately. Rather rapidly. And utters a long
"greeting" phrases as it does so! Quite definite. This would suggest
that "greetings" may contain an appreciable escape component.

I shall call the "greeting" phrases "WBL" from now on.

This turns out to be pink and green in the cage! No wonder
that they weren't behaving as expected!!

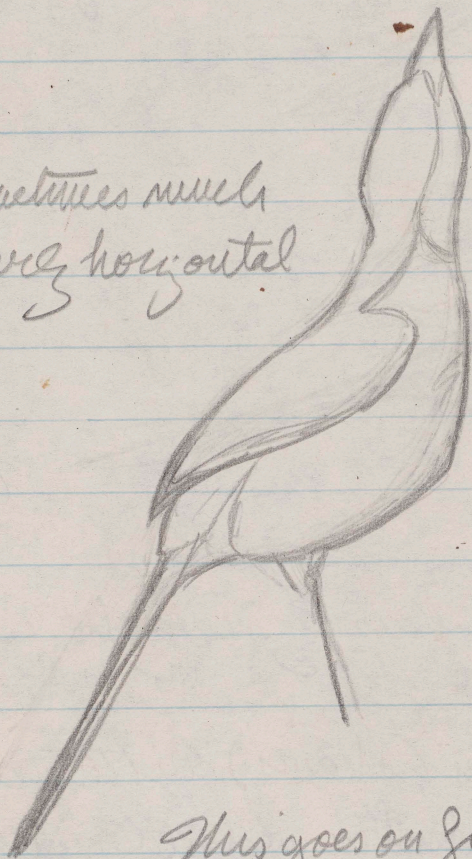
Take pink out, put red in 7:30 a.m.

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Red flies to corner cage. Does a little bowing. Thflff (I think) but no CR. High bow posture slightly St-like (bill and head nearly vertical, but not body). Green bowing about 5 ft away. His high bow postures are much more thoroughly St-like. No Thflff. Both birds quite alert

Body sometimes much more nearly horizontal



Green's St-like high bow posture is rather curved and elegant-looking. Neck perhaps not greatly elongated; but front part of body looks long.

legs not straightened

This goes on for a long time. Still continuing 7:40. Red's body plumage is not sleeked down during the bowing; but the whole front part of Green's plumage is sleeked down very flat during the bowing.

Green seems to be relaxing now 7:45. Less sleek. Starting to pick at his wing in the intervals between bowing.

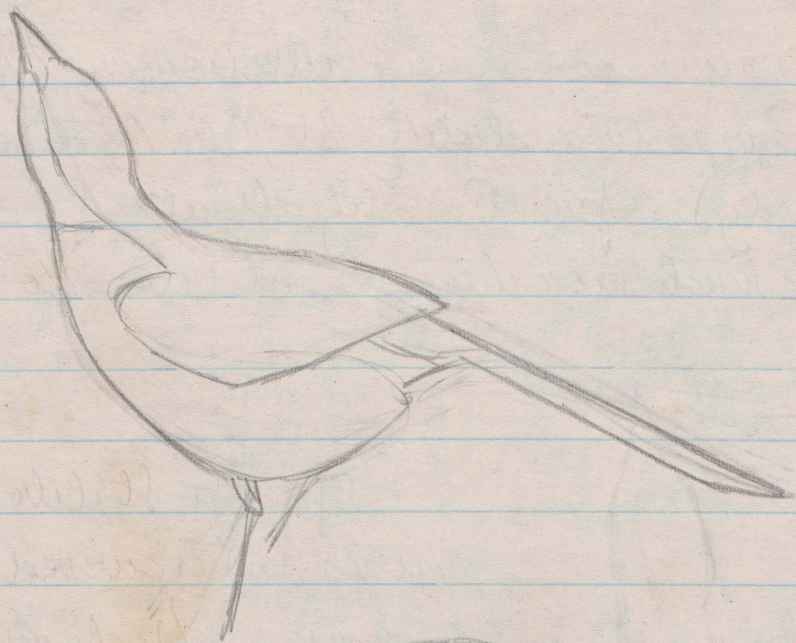
Down phases of Green's bowing always much briefer than high phases

Still not much change 7:55.

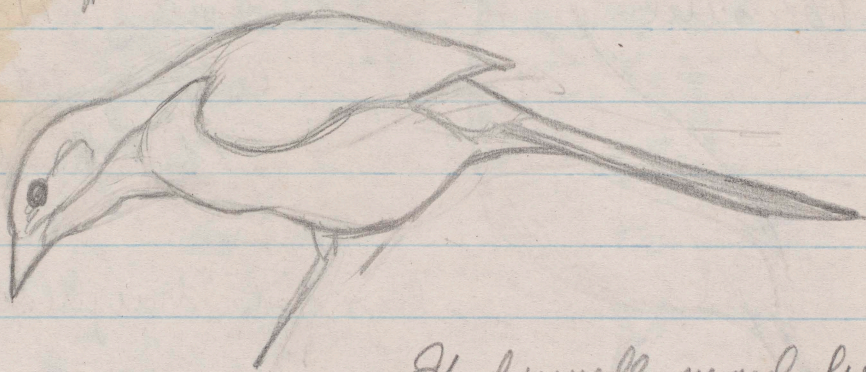
Red has little or no Thflff now in all or most of its bowing.

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(64)



low intensity
high bow
posture



One type of
low-bow
posture
(unusual)

Head usually nearly horizontal

8:00 a.m. Green picks up n.m. (straws) and then continues bowing as before in corner!! Drops it almost immediately, and still continues as before.

8:05. Green occasionally supplants red. Red always retreats immediately. Green stands, bows as usual (still st. like in high posture). Then goes back to old station and continues as before.

Green picks up n.m., supplants red, continues bowing, with n.m., at site where red was bowing before being supplanted. Then flies away. Still carrying n.m. Circles around red, at distance of 2 or 3 ft, still bowing & carrying n.m. Then red down to feed. Green follows. Then both animals back to old sites. Behaving as before. Green has lost n.m. somewhere.

Atlapetes, Feb. 5, 1962, IV

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Still continuing 8:30. Green still occasionally supplanting red. Animals still very active all the time. Including red, who continues bowing steadily when not feeding or being supplanted.

Red's bowing seems to be almost or completely unritualized in form.

Animals disturbed when food brought 8:37, but revert to old behavior almost immediately.

Red tends to have tail more fanned than green during bowing.

I hear occasional ECN-type notes during this behavior, but can't tell who is uttering them. I think it is red. As red doesn't seem to be responding "positively" to green, this may be an indication that ECN's are purely hostile.

Green repeatedly supplants red, 8:45. Carrying n.m. in bill. Does brief bowing, sometimes, between supplants, but most supplants follow too rapidly one right after the other to permit this. Frequency of ECN increases during this chasing. Red seems to give them just as she escape then birds stop again. Behaving as before.

Then supplanting starts again. This time green not carrying n.m. Then he does pick up n.m. and continues supplanting. Red utters ECN's while escape. Also when bowing between escapes. 8:50. Green does little bowing between supplants while carrying n.m. And the bowing movements he does make are not extreme. Red's plumage is more sleeked (all over) when she bows between supplants than at other times. Interestingly enough, no CR.

Things quieter now 9:00 a.m. Red on perch. No bowing. Green on ground, feeding.

Then green up. Back supplanting red. Again and again.

Atlapetes, Feb. 5, 1962, IV

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Both with and without n.m. Still bows vigorously between nuptial acts when not carrying n.m. 9:10.

Twice, when chase is most rapid, ♀ escapes with ECN's which might be transcribed as "3 eeeeeee aah". Latter part of such notes slightly HAC-like.

Does it again 9:12. Obviously very high intensity. Good evidence that ECN's are hostile.

Green apparently not trying to actually attack red during these chases. But his chases do seem to be getting gradually if irregularly more rapid & violent. Tempo of red's ECN's also increasing.

Quiet again. Birds feeding 9:22. Then rest, on ground. Leaving 9:35 a.m.

Atlapetes, I

April 15, 1962
Cerro Punta

Arrive area where Yellow-throat was heard DCing last year (half way between Cerro Punta and upper pasture) 6:00 a.m. Just beginning to get light.

No DCing today.

Flush a pair of Yellow-throats 6:30 a.m. Fly away silently. Then sit in bush, looking at me, making flight int. moves. Silent. No CR or Hiff. Then disappear.

The Yellow-throat is probably one of the species which DC's comparatively rarely. Like the Yellow-rumped Tanager.

Atlapetes, I

April 16, 1962
Cerro Picuta

Working near upper pasture this afternoon.

5:50 p.m. Suddenly flushed a whole family of Yellow-throats, including 2 adults and 2 or 3 young (with short tails and yellow at the gape). Birds hopped and flew about nervously in the bushes. Uttering lots and lots of thin, high-pitched, moderately loud "Tseeeeeee" notes, intermingled with a few slightly different "Tseeeeeeah" notes. Two types of notes intergrading. Slightly variable in length. Quite like ECN's, but slightly hoarse. Some with a slight but definite rattle undertone. (It is possible that some of the ECN's I have heard previously were also slightly hoarse, but, if so, I certainly overlooked it.) These notes were certainly uttered by at least one adult and one young bird (probably by all the birds of the group). The adult(s) had extreme CR, moderate fluff, and moderate fluffing of the underparts throughout the period the notes were uttered. But no Bowing or St!! The young bird(s) did not perform any ritualized movements or assume any ritualized postures while uttering the notes. Just sat looking generally fluffy (like the young birds of almost all species in almost all circumstances).

The birds were certainly far more conspicuous during this performance than I have ever seen before. Notes nearly continuous for almost 5 minutes.

These hoarse ECN's were quite reminiscent of the "Tseeeeeeeeah" Notes of Brown-capped Bush-tanagers.

This is another, independent, indication that Atlapetes is

Atlapetes, Apr. 14, 1962, II.

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very closely related to Chlorospingus.

These patterns are probably perfectly intermediate between the HAC patterns of tanagers and the thin "cececece" type hostile notes of Eumeryx spp. described by Andrew.

In the midst of this whole performance, one of the young birds uttered a single, rather weak, "Tuck" note. The only note of this type uttered. Not accompanied by special postures or movements.

The birds fell absolutely silent, very abruptly, as soon as they got out of sight of me (when they flew over a dense "hedge" of tangled vegetation about 20 ft away from me).

This incident is another indication that escape is as strong as, or stronger than, attack when ECN's are uttered.

Atlapetes, I

April 18, 1962

Cerro Punta

Working at Lewis's place this afternoon.

3:40 p.m. Suddenly come across what seems to be a boundary dispute between Yellow-throats. 2 or 3 birds. Uttering lots and lots of ECN's. Nearly continuous. Notes might be transcribed as "Zcececece" or "Whececece". Only slightly buzzy. Also quite a lot of short sharp notes, almost exactly intermediate between "Trit" and "Tuck". These SHN's sometimes single. More often in brief series, 3 (possibly 4) notes at a time. These brief series so accelerated as to form real brief R's. Reminiscent of R's of Piranga in sound.

I think the R's were usually or always given by birds hopping from perch to perch; but possibly also by birds which were momentarily in station. The birds also did a good deal of Bowing during this

Atlapetes, Apr. 18, 1962, II.

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incident. Rather irregular. Not including real St. Accompanied by at least some CR. Couldn't see if Hflff also present or not. Many (at least) of the ECN's must have been uttered during the Bowing.

This behavior almost certainly not provoked by me, as I heard the ECN's long before I got near the birds.

Again I was surprised by how conspicuous the birds were when uttering ECN's. It is obviously significant, therefore, that this dispute "attracted" one Chestnut-capped Bush-finch and one Brown-capped Bush-tanager!

The Chestnut-capped Bush-finch just hopped along the ground and through the shrubbery in the direction of the disputants. With extreme Hflff and CR, and a little irregular Bowing. Apparently quite silent.

Atlapetes, I

April 19, 1962

Cerro Punta

Working along ravine at upper border of Llanos this afternoon. 3:05. Come across 2 or 3 Yellow-throats. Uttering lots of ECN's. With lots of Bowing. No extreme St's. Little or no CR or Hflff. Perhaps reacting to me.

Atlapetes, I

April 20, 1962

Cerro Punta

Working along ravine just above Llanos this afternoon.

Hurled a single Chestnut-cap 5:58 pm. The bird utters 2 ECN's as it bursts from the undergrowth, in flight. Quite like the

Atlapetes, Apr. 20, 1962, II

(70)

ECN's of Yellow-throats, but not at all hoarse or buzzy

Then perches on twig about 15 ft away. In crouch. Making Bowing int. movs. Also lots of TF's. Few or (more probably) no WF's. At first utters series of "Int" Notes. Then silent. With extreme CR and Thflff throughout. Twice does a general shake-out of whole plumage. (It has been raining here recently — so these shake outs may have been autochthonous.) Then flies to another perch about 10 ft farther away. Again perches in crouch, with Bowing int. movs., TF's, extreme CR and extreme Thflff. One more general shake-out of plumage. Quite silent. Then flies off and disappears.

This incident would suggest that ECN's are higher intensity than "Int" Notes, and that "Int" Notes are higher intensity than silent CR and Thflff. Probably all produced when escape stronger than attack.

Atlapetes, I

April 21, 1962

Cerro Punta

Working along upper edge llanos and ravine this morning.

At 6:00 a.m., there is an outburst of high thin songs which sound as if they might be uttered by Chestnut-capped Bush-fidies.

Phrases like "Ja-zee-zee ta-zeeeee-zeeeee", "Ja-zee-zee zeeeee" etc. Can't see the birds singing. Some apparently in shrubbery near ground. Others moderately high in trees.

These songs might also be by warblers. But I don't know which species.

Burst of songs over within 5 minutes

6:25. Another burst of song. Absolutely similar in quality. Comi

Atlapetes, Apr. 21, 1962, II

(71)

ing from absolutely typical Chestnut-cap habitat. Obviously single bird. Phrases all "Ja ta-zeeeee zeeeee"

Then followed by burst of thin high-pitched Twitter or Wbl.

● Greeting ??? Followed immediately by more song phrases as before.

Then mixed juvenile Twitter and song phrases. Then more song phrases alone. Then more mixture song phrases and Twitter. This rounded as if uttered by single bird, first a song phrase, followed immediately by a Twitter. Resemblance to Blue-black Grosbeak ??

7:10 Come across a single Chestnut-cap. Obviously very nervous about me. Silent. Does lots of Bowing (high position much less extreme than in my drawing of last year). With extreme CR and Hiss (at first, gradually declining later). Also lots of TF's. All extremely U-D and extremely lateral. All with Inn. (Tail somewhat fanned at all times but more so during the TF's.)

Atlapetes, I

April 22, 1962

Cerro Punta

Working at level of Cerro Punta this morning (Front site).

● 6:30 a.m. Single Chestnut-cap. Singing steadily. Repeating identical phrases "Ja-zeeeee-ah-ta-zeeeee" This time I can actually identify the bird, altho I can't see it well. Uttering phrases while feeding on ground. No wing movements. Little or no CR and Hiss.

The "zeeeee" sounds are slightly hoarse. Does this mean they are closely related to ECN's? Does this mean that the songs of this species are at least partly hostile ??? If so, their evolution is somewhat problematical!!

72

1877-1878

May 17, 1962
Pichericha

[illegible]

"Ja-~~reccccet~~ ta-~~reccccet~~ ~~reccccet~~ ta-~~reccccet~~ ta-
~~reccccet~~ ta-~~reccccet~~ ta-~~reccccet~~ ~~reccccet~~ ~~reccccet~~ ~~reccccet~~
ta-~~reccccet~~" General tone quite reminiscent of Chestnut
cap. Min's high. Definite rattle undertone to notes. Especially
in "reccccet"s (in both monosyllabic and bisyllabic notes)
Rhythm of song rather variable. Sometimes pauses between notes
quite long, sometimes shorter than notes themselves.

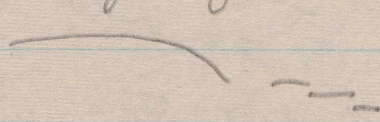
五

This morning I got a few glimpses of the bird actually singing. Usually in any one of a variety of upright, pre-loc. postures. With CR and trill. Bill opening & closing with notes. Sometimes accompanied by flicking, but no special wing-movements. Possibly

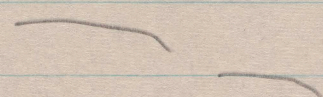
Atlapetes, I

May 20, 1962
Atlixco

Arrive canal place 5:42 a.m. Not quite light yet.
rufinucha songs begin 5:45. At first all "Jeeooooo
 jeeoo jeeo jeeo" type



Then I hear a few abbreviated "Jeeooooooo jeeoooo" types

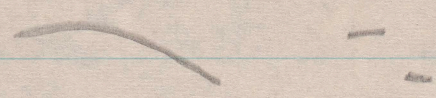


Hear one "complete" song with R 5:52 a.m. Then a few more. All by same bird.

So the songs of the birds here seem to be just the same as on previous years.

Other birds continue songs without R after first bird has begun to utter "complete" songs.

6:05 a.m. One bird seems to be uttering songs commencing "Keeeyah hie kah ha"



Most birds still not uttering R's at end of song 6:07

6:28 a.m. Listening to one bird who utters both "incomplete" songs without R and "complete" songs with R. Usually in alternation! In both cases, the second whistle, the first short note, also tends to be higher pitched than the first, long note. Just as in the diagram of "incomplete" song immediately above (and the latter were certainly

Atlapetes, May 20, 1962, II.

(75)

uttered by a different bird).

Working near town of Lloa this afternoon (on far side of Pichincha).

4:30 p.m. See a single refinucha. Perched on twig making flycatching movements. With CR. Uttering single "Tut" or "Dit" Notes. Very soft. Then joined by mate. Don't see or hear greeting, if any. Then one bird feeds, while other sits. Feeding bird sometimes close to mate, sometimes 10 ft away. Throughout the period of feeding, the feeding bird utters nearly constant "Tut" or "Dit" Notes. Comme ça:

"Dit dit dit dit-dit dit di-dit dit dit dit di-di-dit dit dit-di-dit," These notes would appear to be real locomotory notes. This may be another remembrance to the BCBT. (I might stress the fact that the birds obviously were not alarmed by me during the period their notes were uttered.)

Eventually the birds move off, but I can still hear them uttering "Tut" or "Dit" Notes 4:48 p.m.

I shall call these notes just plain "CN"s from now on.

Birds back in sight again 4:52. Behaving more or less as before.

One of them catches sight of me and hops away. I think it raised its crest more than usual, in extreme CR, as it left. The CR of this uprice is probably also an indication of escape.

Around 4:00 p.m. this afternoon, I was walking rapidly along a path above Lloa, in a heavy rain storm, when I suddenly heard a long burst of torquatus "seeeeeeet" and "seeeeeeent" notes. Didn't see the bird(s), but I think the notes were uttered by 2 birds, fairly close together.

Later, around 5:50, when we were driving back to Quito,

Atlapetes, May 20, 1962, III

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I saw a single torquatus hopping & feeding along the side of the road. I immediately told Galazya to stop and hopped out of the car. As soon as I got out, I heard that the bird was uttering "seeeeeeet" and "seeeeeeet" Notes. I don't know if it was uttering such notes beforehand, or if they were a reaction to my appearance. In any case, I got a very good view of the bird. It had CR all the time it uttered the notes. Quite extreme, like the CR of the Orange-billed Sparrow sketched in my notes — not like the CR of torquatus during bowing described a couple of years ago. No Thylff. No other special movements or postures (except flicking, of course). As I stood still, the bird gradually hopped away, gradually relaxing. Fell silent and stopped CR.

This might suggest that the "seeeeeeet" and "seeeeeeet" Notes of this species are at least partly hostile. Is this premature? Is it also true of the "songs" of other spp. of Atlapetes?

Atlapetes, I

May 21, 1962
Paschuicha

Working near Lloa this morning. Arrive 5:30 a.m. Still quite dark.

Just at 5:30, there was a burst of DC. By at least 2 birds. One uttering "Keeyoo" or "Feeoo" Notes, with an occasional "Kee" interjected. The other uttering "Keeyoo" or "Feeoo" Notes and "Kee" Notes in regular alternation. "Keeyoo kee keeyoo keee keeyoo keee..." This burst of DC stopped within a couple of minutes. I think it must have

Atlapetes, May 21, 1962, II.

(77)

? been uttered by birds which were awakened by the arrival of
? our car. It was followed by a period of silence, during which
? no similar notes were uttered.

? All these DC Notes were very similar to (possibly identical
? with ?) the whistle notes during the ordinary "song" of rufinucha.
? I think they must have been uttered by rufinucha.

? 5:34 a.m. I go back to car to get my tobacco, and
? make some noise in so doing. This seems to provoke another burst
? of DC. Again subsides into silence after a minute or so.

? I stick around area until 6:00 a.m. (when it is fully light).
? Don't hear any regular rufinucha song in exact areas where DC
? came from.

But there are rufinucha singing some distance away.
Watching one perched in tree. All songs without R. Some phrase
"Keeyoo kuh-kuh-kuh." Others "Keeyoo keee kuh-kuh-kuh."
First 2 notes of latter quite like DC Notes heard earlier. Bird sitting
in ordinary posture. With CR. Tail horizontal. No wing movements.

7:00 a.m. Come across 2 or 3 rufinucha (possibly same pair
observed yesterday). Feeding & hopping along hedge. Utter lots &
lots of "CN"s, both single and in series when they are obviously nervous
about me. Is my interpretation of this pattern wrong?

Once, when one bird came close to another, one of them apparently
uttered harsh, hoarse, "Zeeah zoh-zoh" HAC?

Heard another rufinucha singing 7:25. Again no R's.

Atlapetes, I

May 22, 1967
Pichincha

Working in same place as yesterday morning. Arriving

5:25 a.m.

Find the whole area covered with midians & cows!

But the DC still begins immediately. One bird.

Uttering "Keeyoo"s. At first with long intervals between notes.

Then gradually accelerating. Bird moves about from place to place in hedge. Gradually begins to differentiate notes. For a while, every 3rd "Keeyoo" is lower in pitch than the others

"Keeyoo keeyoo

keeyoo keeyoo"

keeyoooo

Then falls silent for a few seconds. Then it starts again. At approximately same time, 1 or 2 other birds begin DC. More or less as yesterday. One bird repeatedly utters "Kee kee keeyoo kee kee keeyoo kee kee keeyoo" All birds moving about during DC. I shine flash-light on areas where sounds are coming from, but can't see a thing. I.E. birds are well hidden in hedge. This is reminiscent of Yellow-throat.

After DC has continued for some minutes, at least two birds begin to interject doublets of short descending notes "Keeea keea" ~~~~~
Reminiscent of short notes in ordinary day song of ufinucha.
But the DC does not break up into phrases at the same time.

After about 5 minutes, the DC stops. It is not followed immediately by ordinary day song of ufinucha. Birds which had been

Atlapetes, May 22, 1962, II.

(79)

DCing apparently fall silent. If this DC is uttered by refinucha, then the birds probably start to feed immediately after DC.

(I might add that I am sure that this DC is not uttered by the local thrush. The birds did not sound like thrushes while moving about. And the early song of the thrush began just after the DC stopped, and was quite different in quality.)

5:58 a.m. It is now quite light. And at least 1 refinucha has begun to utter day song in the hedge from which the DC came (although not exactly in same place). Some songs with R. Then all without. Bird seems to be moving down toward where I watched a bird singing yesterday. Yes! It has now, 6:05, reached area where I watched it yesterday. All its songs still without R now. Most songs composed of 5 notes. Only a few of 4.

It looks as if several ♂ refinucha sleep close together in same hedge here. Then move apart to own territories to sing there. (The DCing bird I followed most closely was moving in the opposite direction from this singing bird here.)

Singing bird flies away & shuts up 6:09 a.m.

This bird certainly appeared to be completely unmated.

6:13 a.m. The same or (more probably) a different bird singing further away. Peculiar song. No R, but extra notes added at end. Phrases essentially double. "Kewer kew kuh-kuh-kuh keeew
kew kew"

Atlapetes, May 22, 1962, III.

(8)

8:35. Suddenly flush a single refinucha. Very close. Hops, bows, & flutters, irregularly. With extreme CR and definite Thflf.



Throat feathers seem to be short.

It was quite silent at first. Then moved away. At this point it apparently uttered series of "Tuk" notes, in same rhythm as usual CN's. "Tuk tuk tuk-tuk-tuk tuk"

Working near Nono in the afternoon

4:42 pm. Suddenly flush 1 or 2 refinucha. Bird flies off. Uttering CN's in usual fashion. Bowily also utters 2 or 3 thin, high-pitched, plaintive "seeeet" notes!!

5:50 pm. I can hear torquatus "seeeeeeeet" and "seeeeeeeet" notes coming from area where I first heard such notes this year. Can't see bird, but it is coming closer. Then it moves away again!

Atlapetes, I

May 23, 1962
Refinucha

Working near Nono this morning.

5:50. A single torquatus suddenly begins to sing in hedge. All notes "seeeeeee-sut" ———
Repeated one right after the other. Bird moves along hedge. Apparently with CR. By 5:58, it is uttering more conventional "seeeeeee-sut"s. By 6:00 a.m. uttering mingled "seeeeeee"s and "seeeeeee-sut"s. Plus one "Ja-seeeeeee",
mmmm

Atlapetes, May 23, 1962, II

(81)

By 6:04 most of the notes are "Ja-reeeee"s. Some of the "Ja-reeeee"s very hoarse toward end. Others less so.

7:15 a.m. See another single torquatus singing. Most notes "Ja-reeeee"s or "Ja-reeeee-ut"s. It is possible that these notes were provoked by my appearance, but I doubt it. At least, the bird continued uttering same notes after it flew some distance away from me. In any case, it did not have CR at any time!

(I also noted that this bird had white on the center of its breast and belly, as well as on its chin, so it is definitely torquatus.)

Atlapetes, I

May 24, 1962
Pulmicha

Working in Hono this morning.

A torquatus begins singing by 5:43 a.m. Long "few" whistles (quite as long as ordinary "reeeee"s). "Whit-sew"s, "Whit-reeeee"s and "reeeee"s.

This is the same area where I first heard a bird singing this year. And bird seems to be singing from exactly same perch.

7:25 a.m. Come across pair of rufigastra feeding in hedge. Apparently undisturbed by me. Uttering notes absolutely constantly while moving around. Lots of rather soft "Tut"s or "Tut"s, both singly and in short series. Apparently ordinary "CN"s. Also lots of soft, rather hoarse "Scee" or "Zcee" notes. Two types of notes seem to intergrade. Birds also occasionally utter "Zee-waa"s. Usually single. Sometimes 2 or 3 in series. More rounded almost as if they might be intermediate between "Tut"s and "Zcee"s. Couldn't see very well what the birds

Atlapetes, May 24, 1962, II

(82)

were doing with the different types of notes.

Once one of the birds hopped out of the hedge, saw me, uttered one "Tut" Note, much louder & harder than the "Tut"s the birds had been uttering inside the hedge, and then hopped back.

May 25, 1962
Atacaso

Arrive usual place 5:28 a.m.

Rufinucha apparently DCing. Mostly "Kee" or "Kew" notes. With an occasional "Keeyoo" or "Keeyooce" interjected.

Every once in a while a series of short descending notes (also) interjected. "Kew-kew" or "Kuh kuh kuh".

Once a series of "Kee keeyoo kuh-kuh-kuh" interjected. Almost typical "day song".

Too dark to actually see the birds.

General silence falls 5:38 a.m. Then a resuscitation of DC, less intense than before. Then silence. Then another slight burst of DC. Then silence again 5:42.

Just absolutely typical "day songs", with R, heard 5:45 a.m.

7:15 a.m. Hear a brief burst of what is obviously typical Loquatus song! But don't actually see the bird.

Working near Novo in the afternoon.

5:00 p.m. Come across 1 or 2 infrinucha. Bird was quite silent

Atlapetes, May 25, 1962, III.

(83)

before it saw me. Then uttered "Tut"s as usual when I appeared. They moved around bend and shut up immediately. So "Tut"s may be hostile (SHN's?) after all.

Atlapetes, I

September 18, 1962
Telefonico #1

This mountain seems to be loaded with Atlapetes. At least three species.

① Chestnut-capped. I saw a single bird of this species here, above the station, at 11:15 a.m. Nervous. Silent. CR, Tiffle and many flight int. moves. Possibly trailing after a mixed flock in trees (flock included Black and White Warbler, some Redstarts, others).

② Unidentified form, no. II on list. The one that looks like leucoptera near Quito, but is darker below and has black moustache. I have only seen this with mixed flocks. Always, I think, in pairs. See notes on Diglossini. I shall refer to this form as "PL" for the time being. ~~Scientific name is~~

③ Unidentified species, no. VI on list.

I first saw this species near Mucurubá and Cacate yesterday in the relatively dry low country.

I shall call this bird "WM" for the time being. ~~Scientific name is~~

A single bird was seen in a bush at the edge of a dry corn field, near Mucurubá, yesterday at 6:10 a.m. Uttered lots of "Tuck" CN's or SHN's. Also a few soft, thin, song phrases

Altapetes, Sept. 18, 1962, II.

(84)

More or less comme ça: "Tuck tuck tazeezeezeeewa"

The main, terminal, part of this song was appreciably softer than the CN's or SHN's apart from the song (and probably also softer than the introductory "Tuck"s).

A pair was seen near cañete later in the morning. Utters "Tuck"s and nothing more.

This morning I saw a single bird of this species in a bush slightly above the station here. Apparently nervous. Performed lots of flight int. movs. Also uttered lots of their soft "seet" Notes. PN's? Then flew into another bush some distance away. Uttered "Ja seee see see srrr" as it landed. "Greeting" song?

Later in the morning I saw another pair a little further up the mountain. One uttered "Tuck"s. The other was silent.

Altapetes, I

September 21, 1962
Páramo La Negra

Came across a presumed family of PL's this morning at 7:00 a.m. At 9350 ft, in alpine scrub. Associated with a single Fire-belly Pacilotthera for as long as I watched them. Associated with a single Gor and a single Andean Sparrow more briefly.

The PL's hopped about very actively. Uttering lots of "Tuck"s, hard and relatively high pitched (almost "Tsit"s or "Tuck"s). One or more of them also uttered lots of "song". Each song very complex. Beginning with a formless, jumbled, chatter (too loud & hard to be called a Warble. Followed by R. This, in

Atlapetes, Sept. 21, 1967, II.

(85)

turn, followed by 3 or (less frequently) 4 "Feeoo" Notes. Sometimes R and "Feeoo"s repeated in a single song. Sometimes the "Feeoo"s were uttered before the R, but this was relatively rare. Songs usually with CR. In loco or pre-loco postures.

(I might add that once, a few days ago, when I came across some PL's unexpectedly, one bird went into a silent, moderately extreme, "alert", high-bow-like posture (quite like the corresponding posture of the Chestnut-cap) with CR. No shuffling or actual Bowing.

It is interesting that the song of this species is so much like that of rufinucha, while the song of WM is so reminiscent of the Chestnut-cap, as both the PL and WM seem to be almost identical with rufinucha in shape and ordinary actions (although both may be more nearly terrestrial in habits).

Atlapetes, I

Sept 22, 1967
Road to La Azulita

Seen several WM Atlapetes around here this morning.

7:10 a.m. 7600 ft. See what is probably a single WM Atlapetes with mixed flock, including 1 BCBT, and unidentified warbler (s) and flycatcher (s). Bird first seen in tree, then went down into low shrubbery. If my identification of this bird was correct, its movements and attitudes were remarkably reminiscent of Chlorospingus while it remained in the tree.

8:00 a.m. 7500 ft. See pair of WM's (definitely identified) in thick but "uncovered" shrubbery. Apparently alone.

Atlapetes, Sept. 22, 1962, II.

(86)

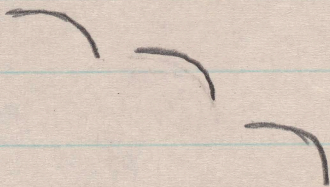
9:55 a.m. 7600 ft (same place single bird seen earlier)
Flush a pair of WM's from a thicket. Both birds utter "feet" notes.

||||| This species does not seem to be as frequently associated
with mixed flocks as is the PL Atlapetes.

Atlapetes, I

September 23, 1962
Paramo La Negra

Approximately 7:00 a.m. 8700 ft. I suddenly saw a single
PL singing. Song quite characteristic. "Tseet" feeco feeco
feeco.



I had heard similar songs (lots of them) all morning, ever
since before sunrise, without being able to see the singing
birds. Some variations. Very occasionally a 4th "feeco" is
added. Much more frequently the song is abbreviated. When
abbreviated, the first "tseet" is usually the first note to be
dropped. Then one (very rarely two) of the "feeco"s. None of these
songs was associated with R (or chatter, as far as I could tell).

(So the R and chatter heard a couple of days ago must
have been largely or completely hostile.)

The bird actually seen singing this morning was perched

Atlapetes, Sept. 23, 1962, II.

(87)

on an exposed branch on top of a tree. I could only see it front view, but it seemed to be in much the same posture as singing rufinuchas. Head pointed diagonally upward. Some CR.

The other birds heard singing were in under brush. Throughout this whole area of thick scrub and scattered trees. Well hidden.

9:35 a.m. Suddenly flush a single PL. Flies into very low scrub. Utters "seet" notes in flight and after landing. Are these notes alarm? Bird also utters "Tut" notes after landing. Then it flies back. Perches exposed, only a few feet from me. Standing in pre-loco posture. With CR. Utters more "Tut"s. So perhaps "seet"s aren't alarm after all.

This species seems to have a longer crest than rufinucha. But crest is rounded (in profile) during CR.

Atlapetes, I

September 24, 1962
Páramo La Negra

Same place as yesterday 5:50 a.m. Hear first PL songs. Rather more varied than songs heard yesterday. First song heard "feco feco feco". This followed by more elaborate phrases. "Treet-sa-reet reet" "Treet-sa-reet treet-sa-reet" "Treet-sa-reet feco feco feco" Etc. I.E. It is the first part of the song phrase that is most elaborate at dawn. Can't see the bird singing. Low hidden in shrubbery. "Treet-sa-reet feco feco feco" most common phrases.

Atlapetes, I

September 25, 1962
Paramo La Negra

Same place as yesterday. Pair of PL's feeding by themselves. One flies to join the other. Joining bird utters soft, high, then "warble" (partly composed of "ta-zee-uh-zeeeee" type components), which changes gradually but rapidly into R, and is then followed immediately by 3 "Teeoo" Notes, as it comes in. All this as greeting!! Without CR. Then, as the birds continue to move through shrubbery, one or both utter(s) more "greetings" whenever they come close to one another. Extremely variable. Sometimes "Warble" alone. Sometimes Warble, followed by R alone. Sometimes Warble - R - Teeoos as before. Sometimes R followed by Warble!!

Then birds fly to join flocks including Bantherus II and Chlorophonia. 8:00 a.m.



Alert Posture
with CR

Chin white, breast & belly gray

9:05 Come across what is obviously the same pair of PL's, now feeding by themselves. Still "greeting" constantly. Much as before. Just noticed one more type of variation. Warble - then high trill "Teeeeeeeeee" - ordinary R (low & wooden) - Teeoos. Thus

Atlapetes, Sept. 25, 1962, II

(89)

Full obviously intermediate between "seeeeee" or "zeeeeee" of Warble and ordinary R.

The Warbles are often rather "pumping". Quite reminiscent of Pelliophonus.

This is by far the noisiest bird I have seen, except for Pelliophonus. Obviously not coincidental that it plays same vocal role as latter.

Atlapetes, I

September 26, 1962
Paramo La Negra

One bird starts singing this morning by uttering lots of phrases like "Tseet-ra-wheel wheel". This is obviously first half of "complete" song. It is only about 5:58 that this bird starts to add "Tseoo" notes to song.

Walking along road 7:15, come across same pair of PL's that were so noisy yesterday. Just as noisy today, in the same way. Then realize that there is (are) 1 or 2 more PL's nearby, also uttering same "greeting" - hostile calls. General hubbub. Coming back 7:30, come across 1 or 2 PL's same place. Very quiet. Utter "tseet"s, no war. So the noisiness of this species seems to increase near boundaries of territories, in same way as in Pelliophonus. Presumably serves same function.

Atlapetes, I

September 29, 1962
Páramo de Guasca

5:35 a.m. In area where Taps are common. Alpine scrub just below páramo itself. Hear PL Atlapetes song. Rather disorganized when it starts. First attempts consist of nothing more than 2 or 3 "Tccoo"s. Then the first part of the complete song was repeated, by itself, several times, at irregular intervals. Only after this, were typical complete songs uttered.

As a result of these observations, and earlier observations near Mérida, it is obvious that this species does not have any DC pattern as such.

7:50 a.m. See (another) pair of PL's. Silent, except for "CN"s. Alone when first seen. Then a Tap appeared briefly in a nearby bush and then disappeared again.

Then, at 9:15, I came across the brilliant and varied mixed flock described in today's notes on the rufous. This included one new species of Atlapetes (which I shall call "PR"), no. XIV, another new species which may be Atlapetes, no. XV, and, possibly, PL. A pair of the first and third, and three of the second.

I shall mark PR ~~XXXX~~ Its scientific name is

When I saw the PR's this morning, against the light, they appeared to be black above and yellow below, like rufina cha but with the crown stripe yellow in front and white behind.

Atlapetes, Sept. 29, 1962, II.

(91)

The PR's are the birds that utter the "wren-like" song mentioned in today's notes on Diglossini. Rapid & powerful twittering or warbling. Usually begins "seeee seeee" After this, its structure is difficult to distinguish, but does include "Ja-seeeee"s or "Ja-seeeee"s. The whole thing sounds very much like a speeded up version of the songs of such Atlapetes sp. as the chestnut-cap and the WM. Almost certainly also contains more notes than the songs of the latter.

This afternoon, at a lower elevation on the road to Quasca, I came across another pair of Atlapetes which were almost certainly PR's. In uncovered shrubbery, 5:45 p.m. These birds appeared to have buffy fronts to their crown-stumps; and their upper bodies (but not their facial masks) appeared to be medium gray (rather than black) or even olive-gray. Was this apparent difference due to different light ???

These birds uttered "seeeet" and "see-seet" notes while moving about, apparently undisturbed, and "Tuck"s when obviously disturbed about me.

As far as I could tell, they were not accompanied by birds of any other species.

Atlapetes, I

September 30, 1962
Parícut de Quasca

Working in place slightly above yesterday's. Possibly slightly wetter. More trees. May be, it is raining this morning.

Near both PL and PR Atlapetes around 6:00 a.m. Can't see

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the birds; but they can't be far apart. Associating with one another?
Finally get decent view of PR. Back and wings are slate colored. Not too very much lighter than facial mask. Front of crown is more orange yellow than underparts, but not rufous. Yellow underneath marked with dark on flanks.

This bird in mixed flock. Possibly serving as leader. With White-bearded Flycatcher, und. Myrobones, possibly others.

This bird apparently joined by mate after a minute or so. Song as "greeting." Delivered from unritualized posture, without CR.

To my knowledge, I haven't heard the local PL's utter the very loud "greeting" patterns which were so common, at times, near Mérida. Is the local form intermediate between Mérida form and the Quito leucophaea in gregarious behavior?

Speak of the devil! Now, 6:36. Hear burst of what sounds like PL "Warble", followed immediately by "Teeoo" Notes. No R. Can't see bird(s).

Still, these birds are certainly quieter, on the whole, than the Mérida ones.

The PR Atlapetes seem to be stimulated by the sound of D. lafrenoy singing. Why? Why is it advantageous?

Later in the morning, still in same area, come across two mixed flocks or, more probably, the same mixed flock twice. Including pair of PR's, but no PL's. Almost certainly the same birds as in mixed flock yesterday. I am now beginning to think that PR's may play a definite, special, social role in the mixed flocks. SEE TODAY'S NOTES ON MIXED FLOCKS.

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KS. While in the flock(s), the PR's uttered a number of songs. Mostly "Warbles", like the ones uttered yesterday and earlier today. Apparently mostly as "greetings" (altho the birds were never really visible when these songs were uttered in the flocks). One burst of "Warbles" was definitely preceded by R's, like the R's of PL's. Others included definite R-components ("sreeeeeeee" type) within themselves.

The songs of this species are really remarkably warbler-like (but not much like the local Bauleuterus) and diglossine-like. Is this mimicry? Designed to attract the local diglossines ?????

Later in the morning, near Quasa itself, I saw a pair of PR's which were quite alone (except for Andean Sparrows, which were everywhere in the area, but did not seem to pay any attention to, or be paid any attention by, the PR's.) This species is certainly not always a member of mixed flocks.

Atlapetes, I

October 24, 1967
Mts above Bogota

I watched a lot of PR's here today.

SEE TODAY'S NOTES ON BOTH MIXED FLOCKS AND DIGLOSSINI

For approximately 15 minutes after 5:30 a.m., I heard a lot of songs which were similar to, but not identical with, the songs of the PL's in Venezuela. As I saw no PL's in this area, I think the songs must have been uttered by PR's (altho I never saw the birds actually singing. The songs were comme ça:

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"Feeo feeo seeeeeee feeo"

Sometimes the "seeeeeee" was replaced by "sreeeeeeee"
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During intervals of such song, I also heard an invisible bird uttering thin high-pitched notes in regular indeterminate series "seeet seeet seeet seeet seeet....."

These sounded exactly like PN's of lots of Atlapetes. Also uttered by PR's? A form of DC?

I might add that this species is more nearly terrestrial, or at least tends to stay lower in scrub, than the rufofasciatus near Quito. Also relatively long-tailed.

This song (?), proportions, & color pattern would all suggest that the PR is quite closely related to the Yellow-throat!

Atlapetes, I

October 30, 1962  
Boqueron de Jollo  
Western Andes

See a single gutturalis hopping thru uncovered scrub here, by road, at 700 ft, 4:40 p.m. Utters "seeet" s. Apparently alone. Not associated with inds. of other species.







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I first became aware of the bird as it sang songs composed of a variety of notes. Most frequently "Whit wheeeeee"s. Also descending 3-note patterns: "Whit whit whit". There two types of

— — —

vocal patterns mixed apparently at random. But "Whit wheeeeee"s always more common than descending 3-note series. Every once in a while, the bird would also insert single "Wheeeeee" notes. Also mixed apparently at random.

These vocal patterns probably easy to homologize with patterns of PL's heard in other areas.

When I first saw the bird, it was apparently alone. Uttering vocal patterns while in scrub, 2-3 ft above ground. Usually while perched immobile in unritualized posture. Sometimes with crown feathers smoothed down. At other times, with crown fluffed (so that the top of the head looked round). No CR. Occasionally song uttered as bird moved through the bushes. Again without obvious ritualized postures or movements. Bird sang from a huge variety of different perches; but all within a radius of 10-15 ft.

The bird sang steadily for a long time, with more or less irregular interruptions by periods of silence.

Suddenly, 7:20 a.m., I looked up to see that there were 2 PL's in the area. About 3 feet apart. One of them was definitely pulling at, obviously trying to pick up, a piece of n.m. (a long strand of grass)!!! Then, suddenly, one bird flew straight at the other. I think that the bird that flew was probably the ♂, and probably the bird that sang earlier. The bird that was approached was probably the ♀ and probably



the bird that had been playing with us. This was followed, immediately, by some "confused" chasing back and forth which I found very difficult to follow. Immediately after this, one of the birds began to display in somewhat the same way as the Yellow-throated Bush-finch. One bird went into extreme St. This was assumed by the bird immediately after retreating. I think the bird was the ♂ and/or the bird that had flown to the other. It commenced:



Very extreme.

Wings drooped (throughout all the St Postures, and the Low Bow Postures — see below).

Tail widely spread (in all St Postures and also in all Low Bow Postures).

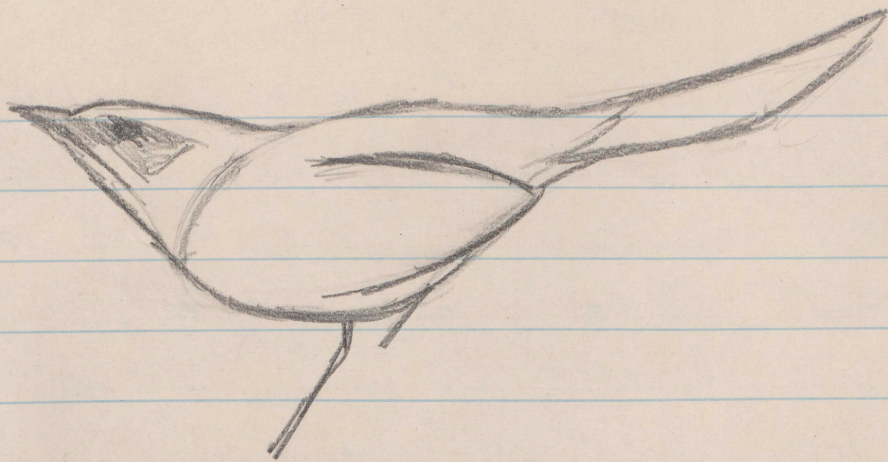
The bird faced its opponent or partner in this posture. Revealing white throat — which was really very very conspicuous.

After the bird stood in this posture for some seconds, it gradually came out of the posture, and started to move about. Hopping from twig to twig. During this hopping, it assumed a more or less distinctive posture, which seemed to be a form of Low Bow Posture, with a trace of continuing BV, as in St. Commence:



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Then there was some more "fiddling" back and forth between the 2 birds. Again, I couldn't follow it. One bird (♂?) repeatedly assumed ft's or low-intensity int. movs. of ft's. Usually after and/or before slight retreats. Possibly also traces of Low Bow.

I think that all the really extreme ritualized postures during this encounter were silent. But then one of the birds (presumably the ♂) began to sing in a weak ft. Posture. First simple whistles, "Wheoooo"s. Then the other elements of typical song were added, as the bird gradually relaxed and dropped the ft.

7:30 - 7:45. ♂ apparently alone again, singing full songs, as before, in more or less unritualized perching posture.

It seems very likely that this whole incident was an unsuccessful copulation attempt, followed by vigorous hostility between the mates.

Atlapetes, I

April 5, 1963  
Near Jaruma

7:10 a.m. 9700+ Working in dense wet scrub along ravine. Come across a pair of what is probably the same "PL" species that I saw yesterday. But today notice that their crown pattern is different from that of the PR's I have seen in other regions. Come ca