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Saltator (birds) at Frijoles and Barro Colorado Island, Panama, 1962

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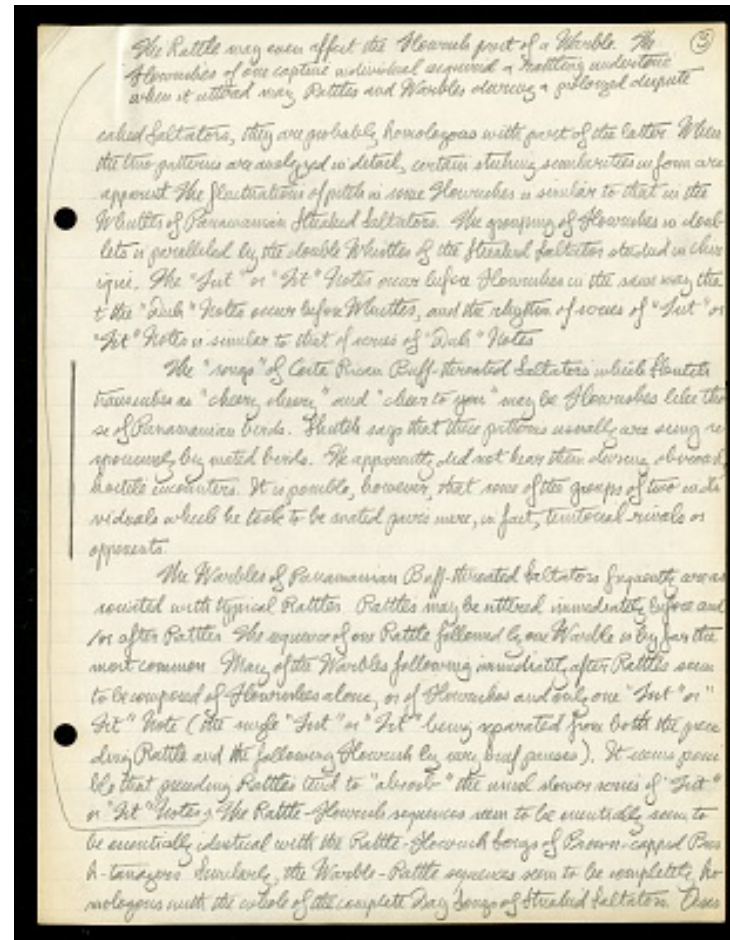
eaked Saltators, they are probably homologous with part of the latter when the two patterns are analyzed in detail, certain striking similarities in form are apparent. The fluctuations of pitch in some Flourishes is similar to that in the Whistles of Panamanian Streaked Saltators. The grouping of Flourishes in doublets is paralleled by the double Whistles of the Streaked Saltator studies in Chiriquí. The "Trit" or "Tit" Notes occur before Flourishes in the same way that the "Duh" Notes occur before Whistles, and the rhythm of series of "Tut" or "Tit" Notes is similar to that of series of "Duh" notes.

[[Note: following paragraph has a vertical line in margin]]

The "songs" of Costa Rican Buff-throated Saltators which Skutch transcribes as "cheery cheery" and "cheer to your" may be Flourishes like those of Panamanian birds. Skutch says that these patterns usually are sung responsively by mated birds. He apparently did not hear them during obviously hostile encounters. It is possible, however, that some of the groups of two individuals which he took to be mated pairs were, in fact, territorial rivals or opponents.

The Warblers of Panamanian Buff-throated Saltators frequently are associated with typical Rattles. Rattles may be uttered immediately before and/or after Rattles. The sequence of one Rattle followed by one Warble is by far the most common. Many of the Warbles following immediately after Rattles seem to be composed of Flourishes and only one "Trit" or "Tit" Note (the single "Trit" or "Tit" being separated from both the piece during Rattle and the following Flourish by very brief pauses). It seems possible that preceding Rattles tend to "absorb" the usual slower series of "Trit" or "Tit" Notes. ^ [[insertion]] The Rattle may even affect the Flourish part of a Warble. The Flourishes of one captive individual acquired a rattling undertone when it uttered many Rattles and Warbles during a prolonged dispute [[/insertion]] The Rattle-Flourish Songs of Brown-capped Bush-tanagers. Similarly, the Warble-Rattle sequences seem to be completely homologous with the whole of the complete Day Songs of Streaked Saltators. Occas[[ionally]]

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