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

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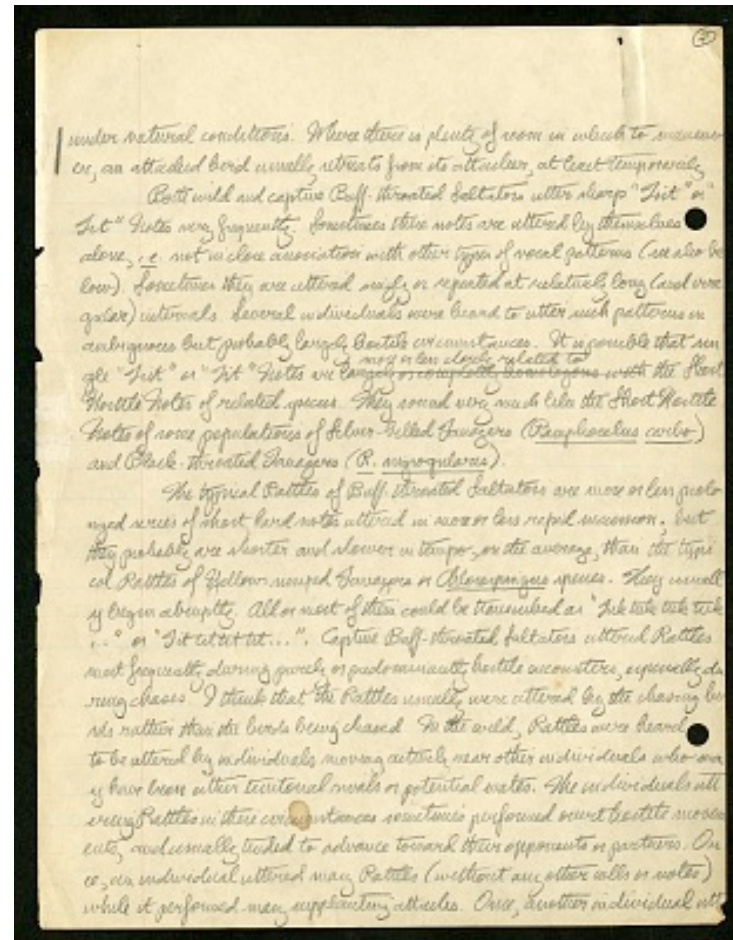
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under natural conditions. Where there is plenty of room in which to maneuver, an attacked bird usually retreats from its attacker, at least temporarily.

Both wild and captive Buff-throated Saltators utter sharp "Trit" or "Tit" Notes very frequently. Sometimes their notes are uttered by themselves alone, i.e. not in close association with other types of vocal patterns (see also below). Sometimes they are uttered singly or repeated at relatively long (and irregular) intervals. Several individuals were heard to utter such patterns in ambiguous but probably largely hostile circumstances. It is possible that single "Trit" or "Tit" Notes are ~~more or less~~ largely or completely homologous with ~~more or less~~ more or less closely related to the Short Hostile Notes of related species. They sound very much like the Short Hostile Notes of some populations of Silver-billed Tanagers (Ramphocelus carbo) and Black-throated Tanagers (R. nigrogularis).

The typical Rattles of Buff-throated Saltators are more or less prolonged series of short, hard notes uttered in more or less rapid succession; but they probably are shorter and slower in tempo, on the average, than the typical Rattles of Yellow-rumped Tanagers or Chlorospingus species. They usually begin abruptly. All or most of them could be transcribed as "Tuk tuk tuk tuk..." or "Tit tit tit tit...". Captive Buff-throated Saltators uttered Rattles most frequently during purely or predominantly hostile encounters, especially during chases. I think that the Rattles usually were uttered by the chasing birds rather than the birds being chased. In the wild, Rattles were heard to be uttered by individuals moving actively near other individuals who may have been other territorial rivals or potential mates. The individuals uttering Rattles in these circumstances sometimes performed overt hostile movements, and usually tended to advance toward their opponents or partners. Once, an individual uttered many Rattles (without any other calls or notes) while it performed many supplanting attacks. Once, another individual utt

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