Sonography of song of the *Basileuterus culicivorus* (Aves: Parulidae) from north of the Santa Catarina Island (Brazil)

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ABSTRACT. *Basileuterus culicivorus* vocalizations has made up of a call and one song. We analyze the song of the "Golden-crowned Warbler" looking for sonographic patterns of a population of the Santa Catarina Island, searching parameters for the bioacoustical determination of the species. The recordings were done in the remaining tropical rain forest in the hill of the Macacu (Florianópolis, Brazil) between autumn and spring 2010. The sound samples were digitized and stored in the Arquivo Bioacústico Catarinense (UFSC / CCB / ECZ). The song has been described as one repetition of phrases made up of melodic notes, each phrase consisting of four syllables distinguished by sonographic morphology, especially by the standards of their modulatory notes. The number of notes per phrase ranged from 4 to 9, distributed among 4 syllables. The notes of the 1st syllabe does not show modulatory morphology, while the others show modulations that can be used as elements to the specie's identification. The pattern formed by the last three syllabes are specific diagnoses and have potential to bioacoustic determination of the species.

Key words: bioacoustics; sonography; Parulidae; *Basileuterus culicivorus*

Short title: Sonography of the *Basileuterus culicivorus*