

NOTES ON GEOGRAPHIC DISTRIBUTION

**Amphibia, Anura, Hylodidae, *Hylodes charadranaetes*:
Distribution extension and notes on advertisement calls.**

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Hylodes charadranaetes Heyer and Cocroft, 1986 belongs to the species group of *H. lateristrigatus* (sensu Heyer 1982) which contains seventeen species (Frost 2007; Canedo and Pombal 2007). *Hylodes charadranaetes* is known only from the type locality (Alto do Soberbo) and adjacent areas, municipality of Teresópolis, state of Rio de Janeiro (Heyer and Cocroft 1986; Frost 2007).

During a field expedition in January 2005 at the municipality of Cachoeiras de Macacu, also in the state of Rio de Janeiro, southeastern Brazil (22°23.291' S, 42°34.891' W; ca. 700 m) we found and collected one calling male of *Hylodes charadranaetes*. This species is diurnally active and some others individuals were found during the day

sitting on the rocks and low marginal vegetation along forest streams. The specimen was deposited at the Museu Nacional, Rio de Janeiro (MNRJ 42645).

We recorded advertisement calls of the species in Cachoeiras de Macacu, which were digitized at 16 bits and sample rate of 16 kHz; analysis was made using the software SoundRuler, version 0.9.4.1, and sonograms were produced using the software Avisoft SASLab Light for Windows, version 3.74. We compared the format of the sonogram (Figure 1) and the temporal and spectral parameters of our calls with the calls described in the original description (Heyer and Cocroft 1986), and found them to be very similar (Table 1).

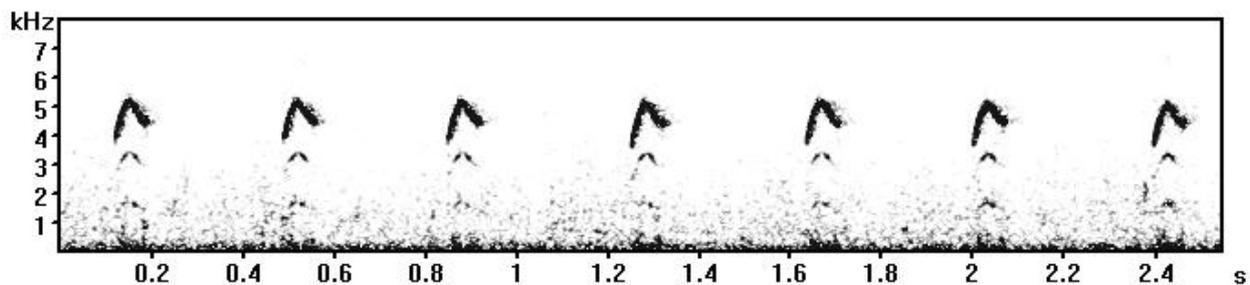


Figure 1. Sonogram of one advertisement call of *Hylodes charadranaetes*, showing seven notes.

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Table 1. Summary of acoustical parameters of the advertisement call of *Hylodes charadranaetes*. Values are presented as mean ± standard deviation (range).

Populations	Call duration (s)	Notes/call	Note duration (s)	Notes/s	Dominant frequency (Hz)
Teresópolis*	(1.1-1.3) n=10	(2-4) n=10	(0.06-0.17)	(2-4) n=10	(4300-5500)
Cachoeiras de Macacu	1.7±1.8 (0.1-5.5) n=35	4.7±4.5 (1-14) n=40	0.08±0.01 (0.06-0.11) n=200	(2-3) n=10	4608±308 (3688-5313) n=197

* Data from Heyer and Cocroft (1986).

Since 1998 we have been visiting the type locality of *Hylodes charadranaetes* and surrounding areas and no specimens of this species was found; it was apparently lost or declining. According to the Global Amphibian Assessment (GAA), *H. charadranaetes* is listed in the Data Deficient (DD) category in view of continuing uncertainties regarding its extent of occurrence, status and ecological requirements (IUCN et al. 2006). It is cited as a very common species with very poorly known distribution, occurring only from 800 to 1500 m above sea level. Our observations extend its distribution about 43 km NE from the type locality and to an elevation of 700 m above sea level.

The present report is another example of the poor knowledge on the distribution and abundance of species of the Brazilian anuran fauna (Pimenta et al. 2005), and support the idea that it is necessary to visit new localities to assess the real status of conservation and distribution of this species.

Literature cited

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