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First record of *Noronha Elaenia Elaenia ridleyana* on Atol das Rocas, Brazil

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SUMMARY.—*Noronha Elaenia Elaenia ridleyana* is a passerine endemic to Fernando de Noronha, more than 350 km off north-east Brazil. It occurs on only three of the 26 islands in the archipelago. However, a single individual was photographed on 16 June 2021 on Atol das Rocas, 145 km west of Fernando de Noronha. Long-distance movement of *Noronha Elaenia* raises questions on whether this species could reach the mainland and if it is a valid species.

Noronha Elaenia is endemic to the Fernando de Noronha archipelago (03°50'25"S, 32°24'41"W), 350 km off north-east Brazil. The archipelago comprises 26 islands, of which *Noronha Elaenia* occurs on three: Meio, Rata and the main island. The species is listed as Vulnerable (BirdLife International 2016) and is the only *Elaenia* species confined to an island. It inhabits scrub, woodland and gardens, and is presumed to breed in February–May (Nacinovic & Teixeira 1989, Antas *et al.* 1990, Licarião 2017). The taxonomic relationships of *E. ridleyana* are unclear, as the species has not been sampled molecularly (e.g., by Rheindt *et al.* 2008), but Straube & Rodrigues (2016) pointed to the many similarities between it and Large *Elaenia E. spectabilis*. The latter occurs over much of Brazil, except the extreme north, as well as widely east of the Andes south to northern Argentina but probably only as non-breeding visitor north to south-east Colombia and over much of Amazonian and north-east Brazil (Hosner & Kirwan 2020).

Here, we report the first record of *Noronha Elaenia* on Atol das Rocas (03°51'30"S, 33°49'29"W), 145 km west of Fernando de Noronha, the only atoll in the South Atlantic and one of the smallest in the world (Fig. 1). Thirty species of birds have been recorded on the atoll, including residents, migrants and vagrants, and thousands of seabirds nest there, but there are no breeding landbirds due to the lack of permanent fresh water (Schulz-Neto 2004).

On 16 June 2021, we recorded a *Noronha Elaenia* perched on a coconut tree (Fig 2a). It stayed in the area for four days and was heard singing. A House Sparrow *Passer domesticus* was observed at the same site, and this species has been by us in other years (annually since 1999) in flocks of up to nine individuals, always in the rainy season during the first half of the year, when freshwater resources are available in reservoirs. As shown in Fig. 2a, the *Noronha Elaenia* had rounded tips to the rectrices, a characteristic of adults (ICMBIO 2020) suggesting that birds of this age may sometimes attempt to disperse away from Noronha.

Although the first record of *Noronha Elaenia* on Atol das Rocas, our observation does not appear to be the first away from Fernando de Noronha. Twice, during research by Operations Sueste on the *Almirante Saldanha*, elaeenias have been reported at sea, but unfortunately details of their locations are no longer available. First, an individual was captured in one of the ship's cabins in July 1982; at the time, it was identified as Olivaceous *Elaenia E. mesoleuca* because of the lack of white on the pileum. Second, in February 1983, an elaeenia was photographed on the railing of the ship (Straube & Rodrigues 2016) and which we believe it is parsimonious to assume was a *Noronha Elaenia*. In the absence

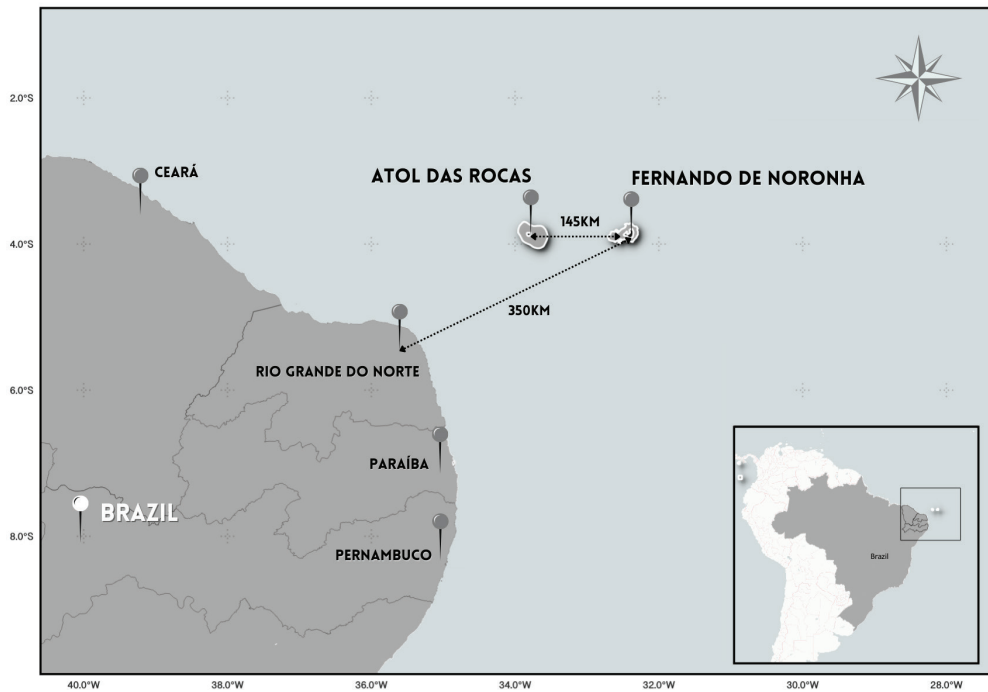


Figure 1. Location of Atol das Rocas atoll in relation to the Fernando de Noronha archipelago and mainland Brazil.



Figure 2. (A) Noronha Elaenia *Elaenia ridleyana*, Atol das Rocas, 16 June 2021 (Maurizélia de Brito Silva); (B) Fernando de Noronha, 20 June 2021; an individual banded by the project Aves de Noronha (© Heideger Nascimento)

of any molecular-phylogenetic data, these observations necessarily resurrect discussions concerning the species' taxonomic validity. Straube & Rodrigues (2016), in their detailed review of the taxonomic history of Noronha Elaenia, while not excluding the possibility

that it is a valid endemic species, noted the paucity of diagnostic characters from and the migratory nature of, especially, *E. spectabilis*, Small-billed Elaenia *E. parvirostris* and Yellow-bellied Elaenia *E. flavogaster* (Rheindt *et al.* 2008), which may provide a clue as to the origin of the modern-day *Elaenia* population on Fernando de Noronha and its relationships.

Migratory elaenias are capable of crossing long distances (Chesser 1994). For example, White-crested Elaenia *E. albiceps chilensis* can fly 500–600 km/day, including across deserts and grasslands (Bravo *et al.* 2017). Given that the distance between Fernando de Noronha Atol das Rocas is just 150 km, and the prevailing winds between them are from the east (Kikuchi & Schobbenhaus 2002), it seems safe to assume that our record involved Noronha Elaenia. Whether *E. ridleyana* is capable of reaching mainland Brazil is unknown but this record raises questions as to whether there is gene flow between Noronha Elaenia and other *Elaenia*.

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References:

- Antas, P., Filippini, A. & Azevedo, S. 1990. Anilhamento de aves oceânicas e/ou migratórias no arquipélago de Fernando de Noronha em 1987 e 1988. *IV Enc. Nac. Anilhadores de Aves, Anais*, Recife, Universidade Rural de Pernambuco 13: 17.
- BirdLife International. 2016. *Elaenia ridleyana*. <https://www.iucnredlist.org/species/22699268/93722423> (accessed 20 November 2023).
- Bravo, S., Cueto, V. & Gorosito, C. 2017. Migratory timing, rate, routes and wintering areas of White-crested Elaenia (*Elaenia albiceps chilensis*), a key seed disperser for Patagonian forest regeneration. *PLoS ONE* 12(2): e0170188.
- Chesser, R. T. 1994. Migration in South America: an overview of the austral system. *Bird Conserv. Intern.* 4: 91–107.
- Hosner, P. & Kirwan, G. M. 2020. Large Elaenia (*Elaenia spectabilis*), version 1.0. In del Hoyo, J., Elliott, A., Sargatal, J., Christie, D. A. & de Juana, E. (eds.) *Birds of the world*. Cornell Lab of Ornithology, Ithaca, NY. <https://doi.org/10.2173/bow.larela1.01> (accessed 20 November 2023).
- ICMBIO. 2020. Manual de Anilhamento de Aves Silvestres. https://www.gov.br/icmbio/pt-br/assuntos/centros-depesquisa/cemave/arquivos/manual_de_anilhamento_de_aves_silvestres-3a-ed-1.pdf (accessed 10 October 2023).
- Kikuchi, R. & Schobbenhaus, C. 2002. Atol das Rocas, litoral do nordeste do Brasil - único atol do Atlântico Sul equatorial ocidental. Pp. 379–390 in Schobbenhaus, C., Campos, D. A., Queiroz, E. T., Winge, M. & Berbert-Born, M. L. C. (eds.) *Sítios geológicos e paleontológicos do Brasil*. First edn. Comissão Brasileira de Sítios Geológicos e Paleobiológicos, Brasília.
- Licarião, C. 2017. Condição corporal e abundância dos Passeriformes endêmicos do Arquipélago de Fernando de Noronha, Brasil. M.Sc. thesis. Universidade Federal do Ceará.
- Nacinovic, J. B. & Teixeira, D. M. 1989. As aves de Fernando de Noronha: uma lista sistemática anotada. *Rev. Bras. Biol.* 49: 709–729.
- Rheindt, F. E., Christidis, L. & Norman, J. A. 2008. Habitat shifts in the evolutionary history of a Neotropical flycatcher lineage from forest and open landscapes. *BMC Evol. Biol.* 8(193): 1–18.
- Schulz-Neto, A. 2004. Aves marinhas do Atol das Rocas. Pp. 169–192 in Branco, J. O. (ed.) *Aves marinhas e insulares brasileiras: bioecologia e conservação*. Ed. UNIVALI, Itajaí.
- Sharpe, R. B. 1888. On a new species of *Elainea* from the island of Fernando Noronha [sic]. *Proc. Zool. Soc. Lond.* 1888: 107.
- Straube, F. & Rodrigues, M. 2016. Um incômodo consenso, 2: A cucuruta da Terra do Nunca. *Atualidades Orn.* 191: 41–48.
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