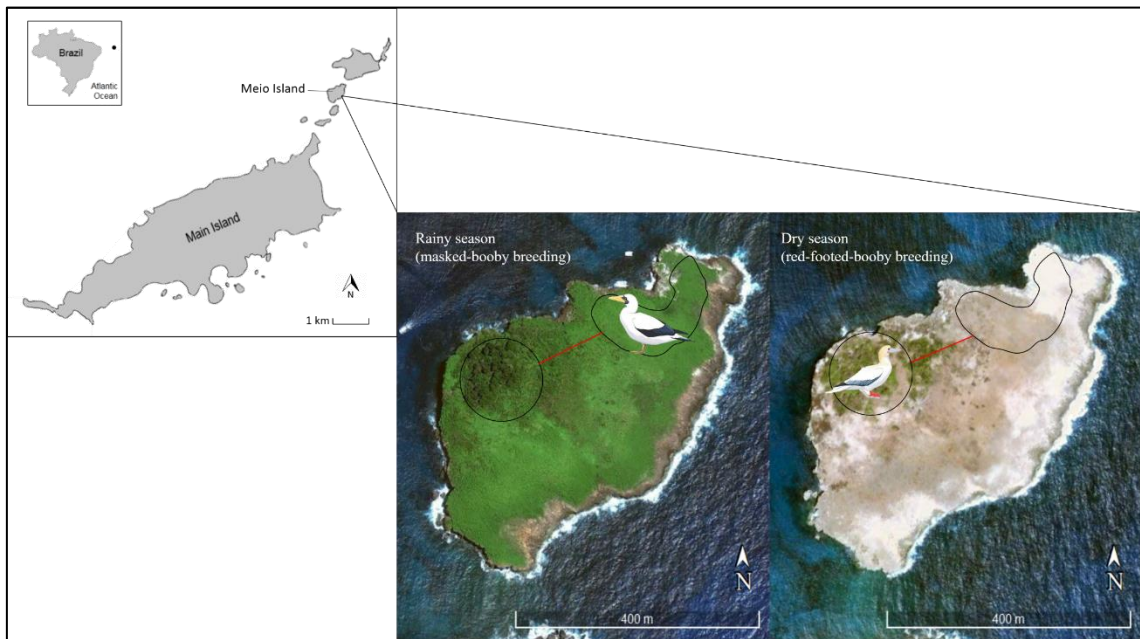


**Appendix S1.** Study area in Fernando de Noronha Archipelago, tropical Atlantic Ocean, off northeastern Brazil (“filled circle”). Sampling was carried out on Meio Island, one of 21 islands in the archipelago, indicated in the map, which hold colonies of masked booby (*Sula dactylatra*) and red-footed boobies (*Sula sula*) in different seasons. Shrubs and herbaceous vegetation cover most of the island and there are some trees at northwest of the island. The red line represents the 100 m transect among areas used as colonies by boobies. Base map from Google Earth.



**Appendix S2.** Images of colony and non-breeding areas at Meio Island, Fernando de Noronha Archipelago, Brazil. Masked booby (*Sula dactylatra*) breeds during the rainy season (**A**) and red-footed boobies (*Sula sula*) during the dry season (**D**). The island is also a non-breeding site of masked boobies and a low number of red-footed boobies during the dry (**B**) and rainy (**C**) seasons, respectively.

