

# Age structure of *Dracaena draco* subsp. *draco* on Tenerife Island

Lucie BauEROVÁ, Jana TulkOVÁ, Hana HabrovÁ

Department of Forest Botany, Dendrology and Geobiocoenology  
Faculty of Forestry and Wood Technology  
Mendel University in Brno

## Introduction

*Dracaena draco* subsp. *draco* is native to Canary Islands, but naturally occurs only on Gran Canaria and Tenerife. On Tenerife Island, wild populations are rare, however, it is artificially cultivated here.

There is still a gap within the age of this species. As *Dracaena* species do not create tree rings by which could be calculated the age of the trees, the age can be estimated either by indirect method focused on the probability of flowering (published by Adolt and Pavliš (2004) and Adolt et al. (2012) for *D. cinnabari*) or by direct method. The presented project is focused on direct method which has not been used yet.

## Results and Discussion

The most abundant (overall) age class is 21–30 years. The same applies for the north population. Within the south population, the most abundant age class is 1–10 years.

The both populations are quite young (except few very old trees on the North of the Island where the age can be only guessed; see photo), if we compare it for example with *D. cinnabari* on Socotra Island (Yemen) where the populations are estimated to be much more older (Adolt et al., 2012). However, *D. draco* is probably faster growing species (Krawczyszyn and Krawczyszyn, 2016) than *D. cinnabari* (Maděra et al., 2020), thus can grow to larger sizes in shorter period of time.

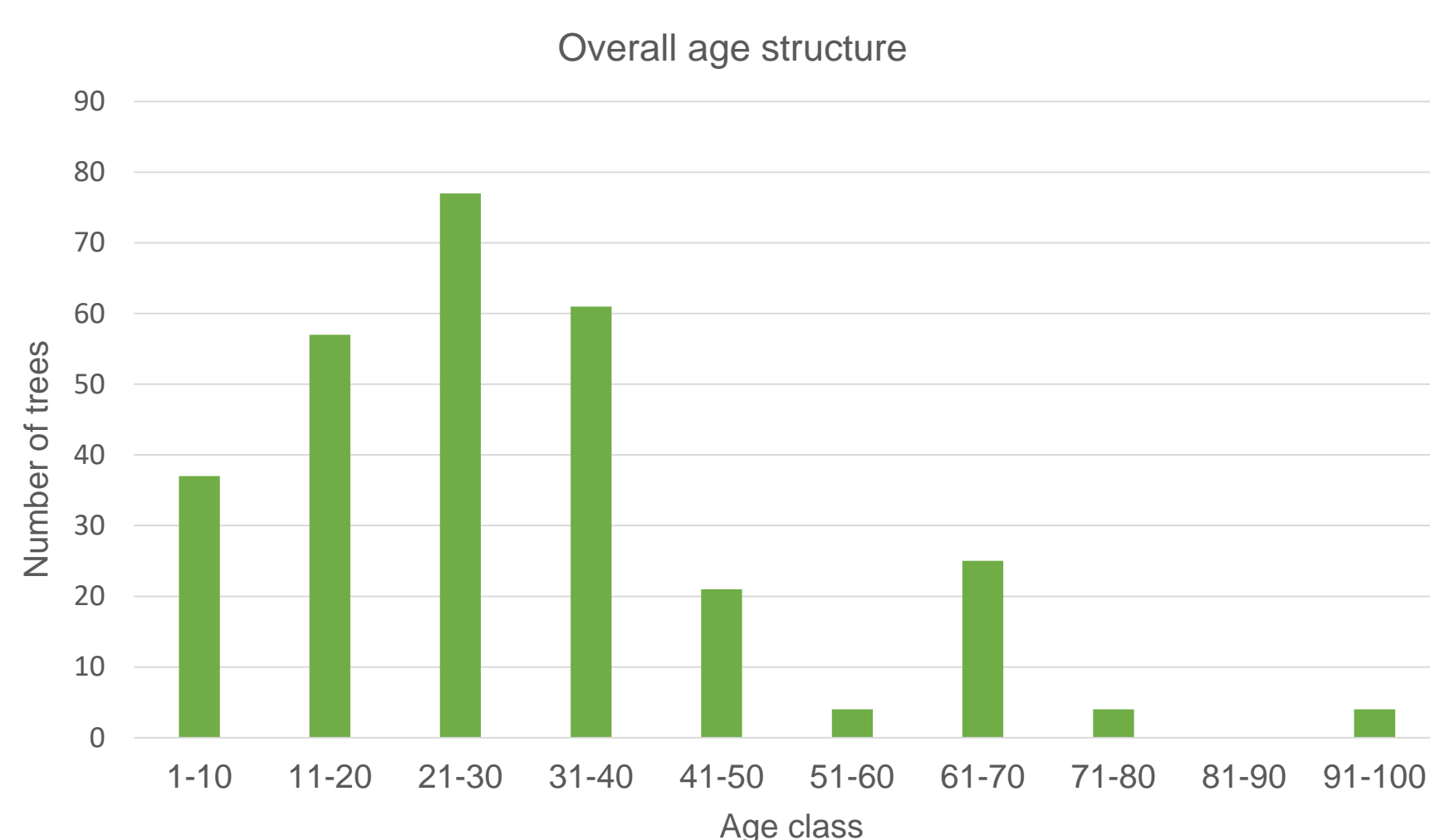


Fig. 1: Overall age structure

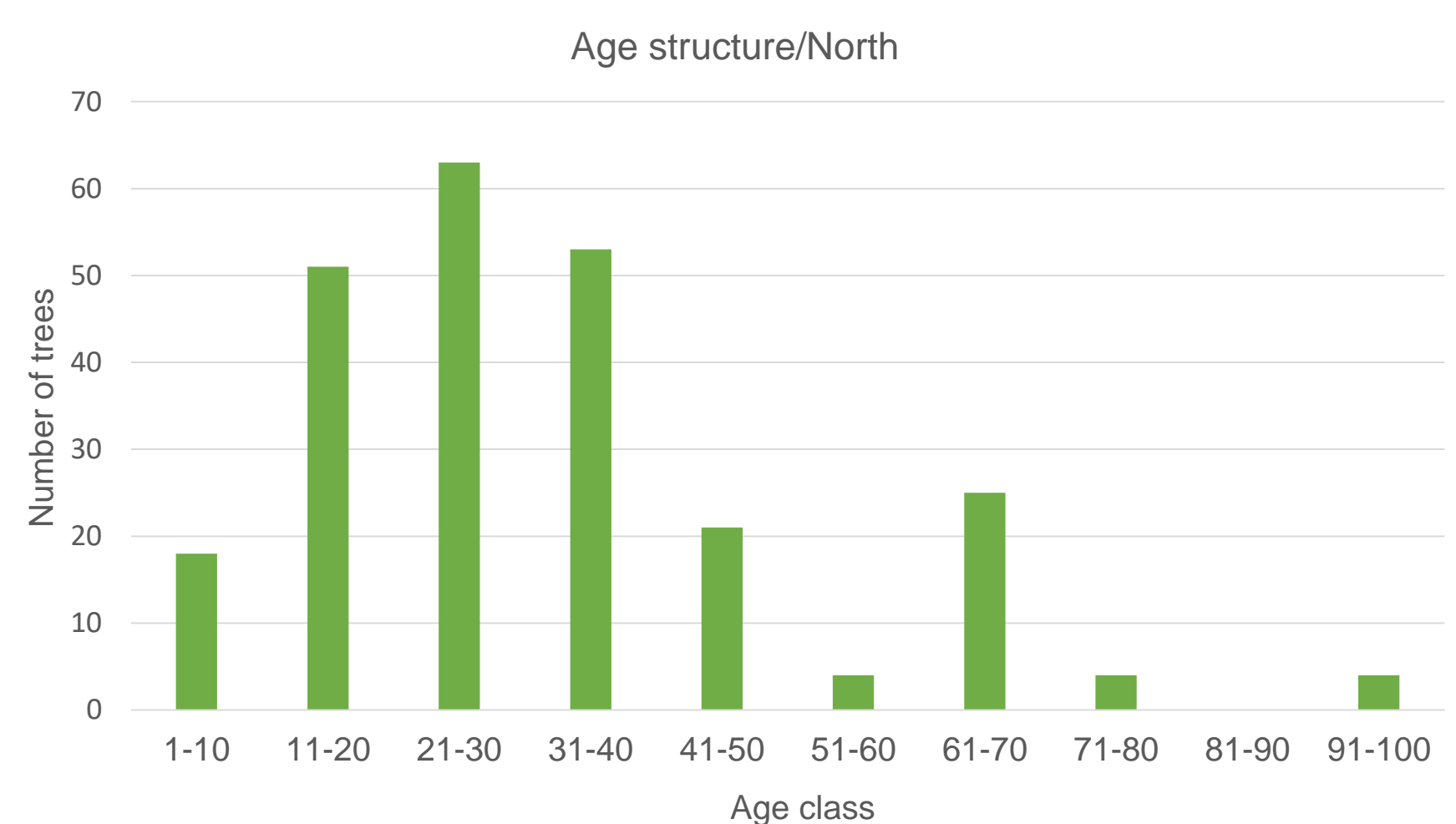


Fig. 2: Age structure of north population

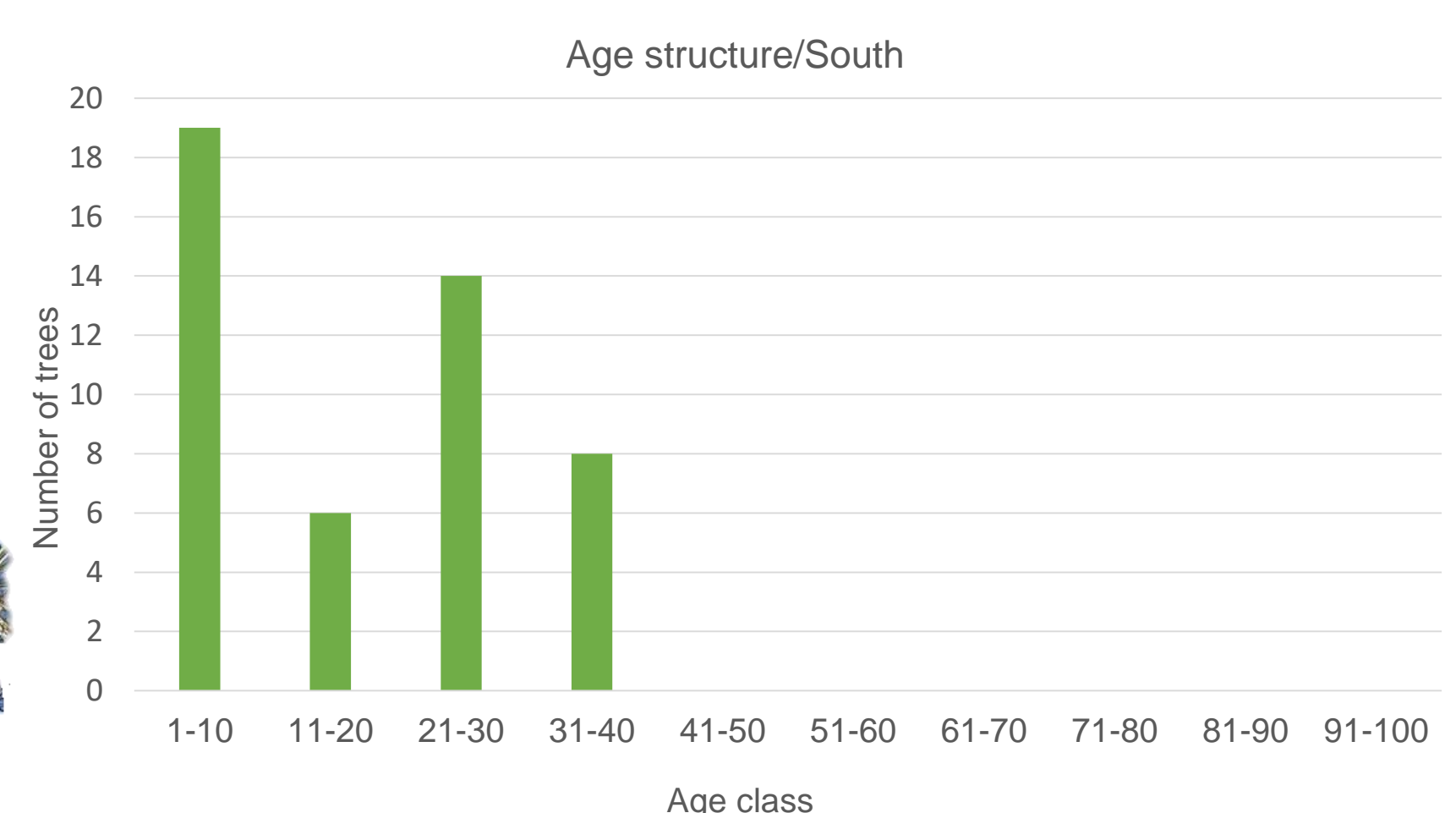


Fig. 3: Age structure of south population

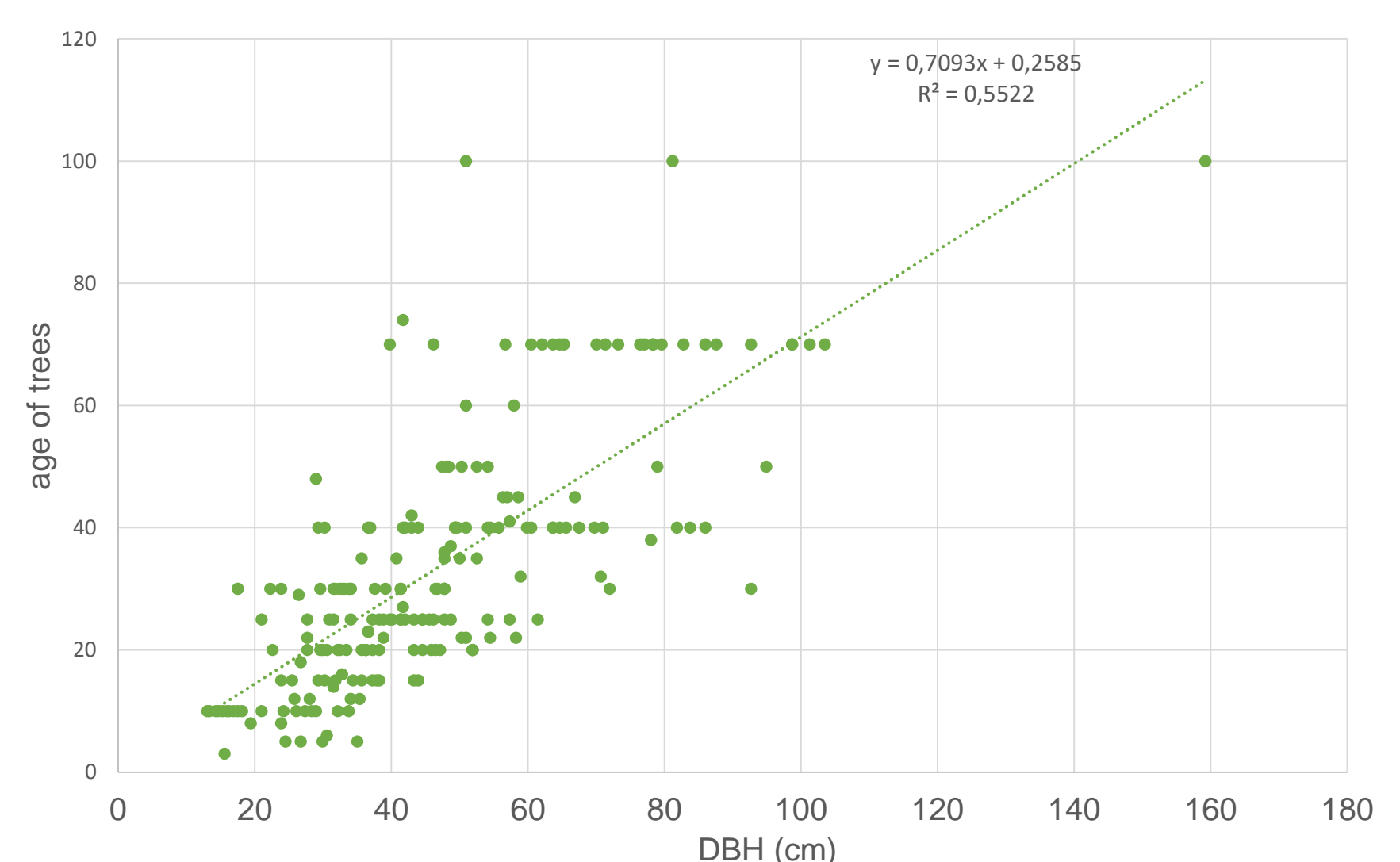


Fig. 4: Correlation between the age of the trees and DBH



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Photo: M. Čermák