

# Socotra Vegetation Database

Michele De Sanctis & Fabio Attorre

**Abstract:** The Socotra Vegetation Database (GIVD ID AS-YE-001) contains 396 relevés (including 500 species). Ten percent of the relevés come from the scientific literature; the remaining 90% have been collected by the authors during several field campaigns carried out between 2007 and 2009. Phytosociological investigation was performed according to the methods described by Westhoff & van der Maarel and Braun-Blanquet. The location of the relevé was selected in relation to the homogeneity of physical features, vegetation structure and species dominance. According to these criteria forest, woodland, shrubland, grassland and halophytic communities were sampled. Plot sizes ranged from 200 m<sup>2</sup> to 4 m<sup>2</sup> depending on the plant community. Cover/abundance data for all vascular plants were recorded in the field using the Braun-Blanquet scale. The database was created in TURBOVEG. A classification analysis was performed to identify the main vegetation communities of the islands and the results are included in the database.

**Keywords:** phytosociology; Socotra; TURBOVEG; Yemen.

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|--|---|--------------------------------|
| <b>GIVD Database ID:</b> AS-YE-001   |   | <b>Last update:</b> 2012-05-04 |
| <b>Socotra Vegetation Database</b>   |   |                                |
| <b>Scope:</b> Phytosociological relevés of the main vegetation communities of Socotra Island   |   |                                |
| <b>Status:</b> finished  | <b>Period:</b> 1997-2010                            |                                |
| <b>Database manager(s):</b> Michele De Sanctis (michedes@gmail.com); Fabio Attorre (fabio.atorre@uniroma1.it)  |   |                                |
| <b>Owner:</b> Michele De Sanctis (private)   |   |                                |
| <b>Web address:</b> [NA]   |   |                                |
| <b>Availability:</b> according to a specific agreement   | <b>Online upload:</b> no                            | <b>Online search:</b> no       |
| <b>Database format(s):</b> TURBOVEG  | <b>Export format(s):</b> TURBOVEG, MS Access, Excel |                                |
| <b>Publication:</b> [NA]   |   |                                |
| <b>Plot type(s):</b> normal plots  | <b>Plot-size range:</b> 2-200 m <sup>2</sup>        |                                |
| <b>Non-overlapping plots:</b> 396  | <b>Estimate of existing plots:</b> [NA]             | <b>Completeness:</b> [NA]      |
| <b>Total plot observations:</b> 396  | <b>Number of sources:</b> 1                         | <b>Valid taxa:</b> 753         |
| <b>Countries:</b> YE: 100.0%   |   |                                |
| <b>Forest:</b> 21% — <b>Non-forest:</b> aquatic: 0%; semi-aquatic: 0%; arctic-alpine: 0%; natural: 11%; semi-natural: 67%; anthropogenic: 0%                             |   |                                |
| <b>Guilds:</b> all vascular plants: 100%   |   |                                |
| <b>Environmental data:</b> altitude: 80%; slope aspect: 52%; slope inclination: 52%; soil depth: 65%   |   |                                |
| <b>Performance measure(s):</b> cover: 100%   |   |                                |
| <b>Geographic localisation:</b> GPS coordinates (precision 25 m or less): 75%; point coordinates less precise than GPS, up to 1 km: 25%                                  |   |                                |
| <b>Sampling periods:</b> 1990-1999: 5.0%; 2000-2009: 85.0%; 2010-2019: 10.0%   |   |                                |
| <i>Information as of 2012-07-12; further details and future updates available from <a href="http://www.givd.info/ID/AS-YE-001">http://www.givd.info/ID/AS-YE-001</a></i> |   |                                |

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