

# Taxonomy Navigator: an alternative frontend for the catalogue of Life taxonomic database



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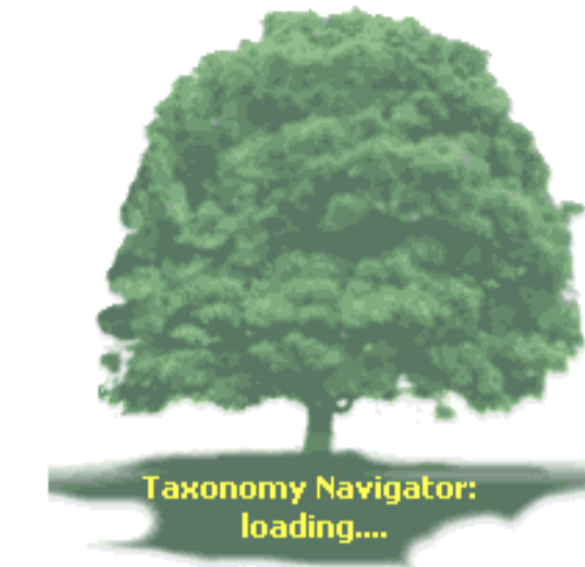
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## Aim:

Given an increasing variety of platforms (MS Windows family, MacOSX and flavours of Linux) in use both by scientists and by public there is a need for cross-platform desktop tool for exploration of taxonomical information stored in the downloadable Species2000 Catalogue of Life.

## Methods & Tools:

- Runtime Revolution crossplatform IDE
- MySQL crossplatform relational database management system.



## Results:

Desktop application **Taxonomy Navigator (TxNav)** that runs on Microsoft Windows 98/NT/XP/Vista, Apple MacOSX (universal binary) and Linux. Installation is not necessary – software can be used directly from local directories or removable drives. Internet connection to explore the database is not required. TxNav is free software.

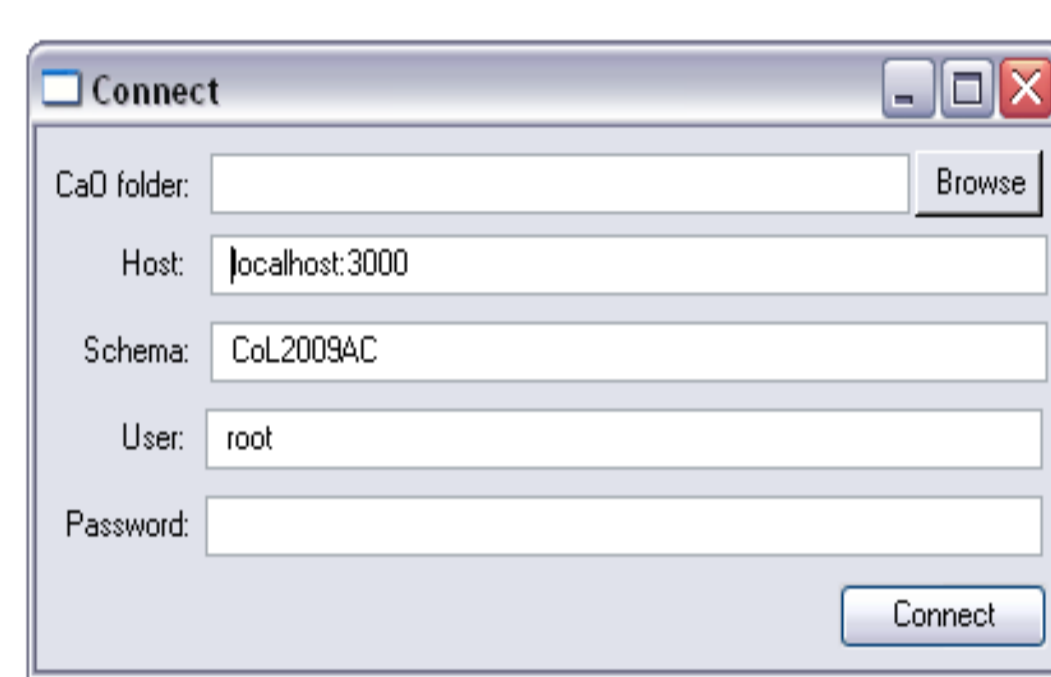


Fig. 1. TxNav connection dialogue

## Features:

- taxonomy tree browsing,
- search by genus,
- search by species denominator,
- search by species common name,
- search by distribution.

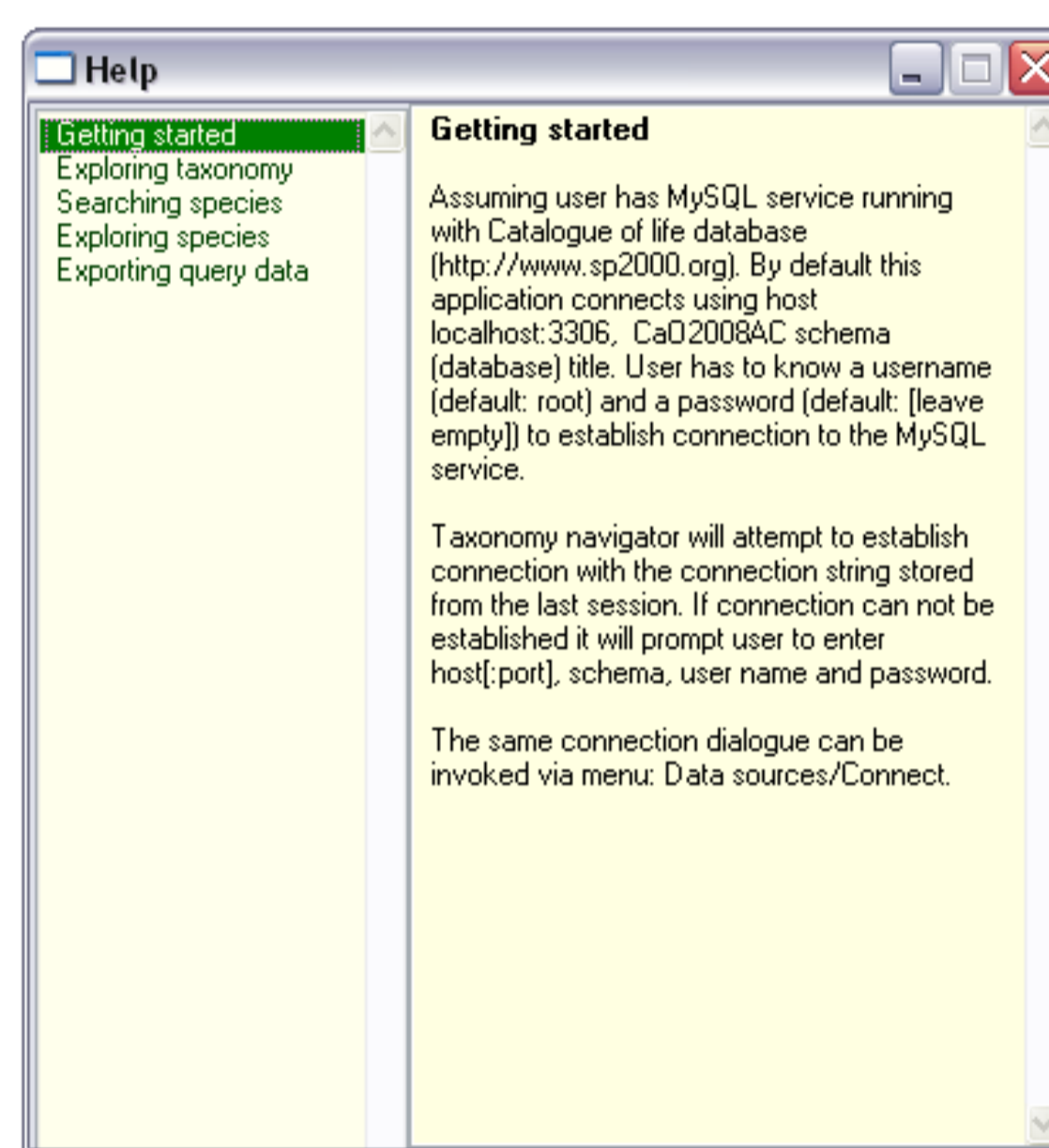


Fig. 2. Help (hints & tips) system

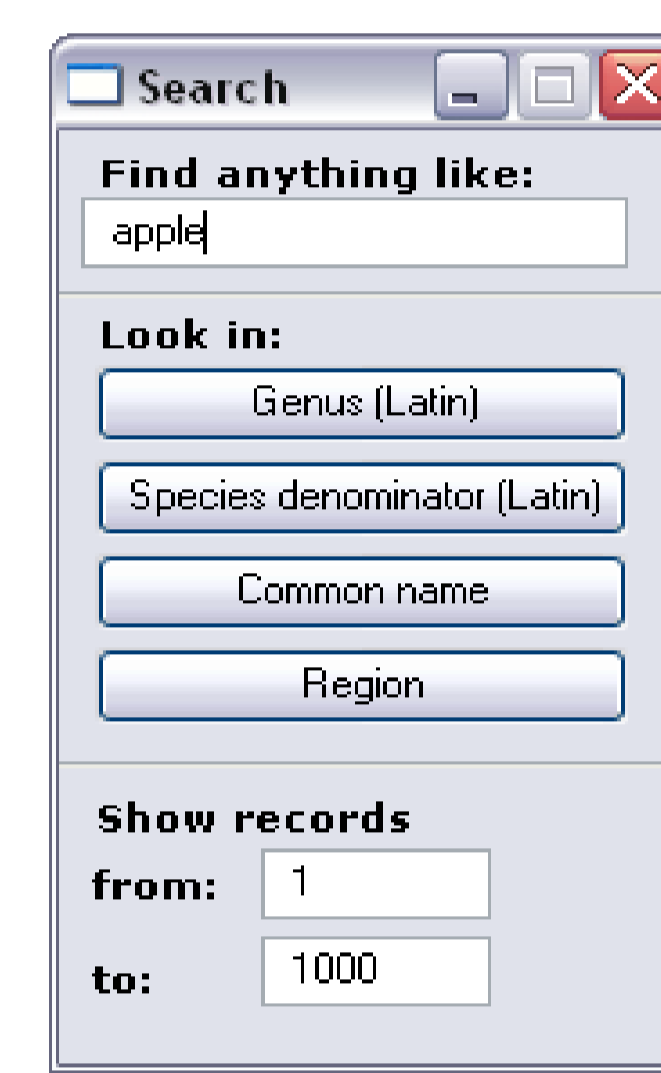


Fig. 3. Database search options

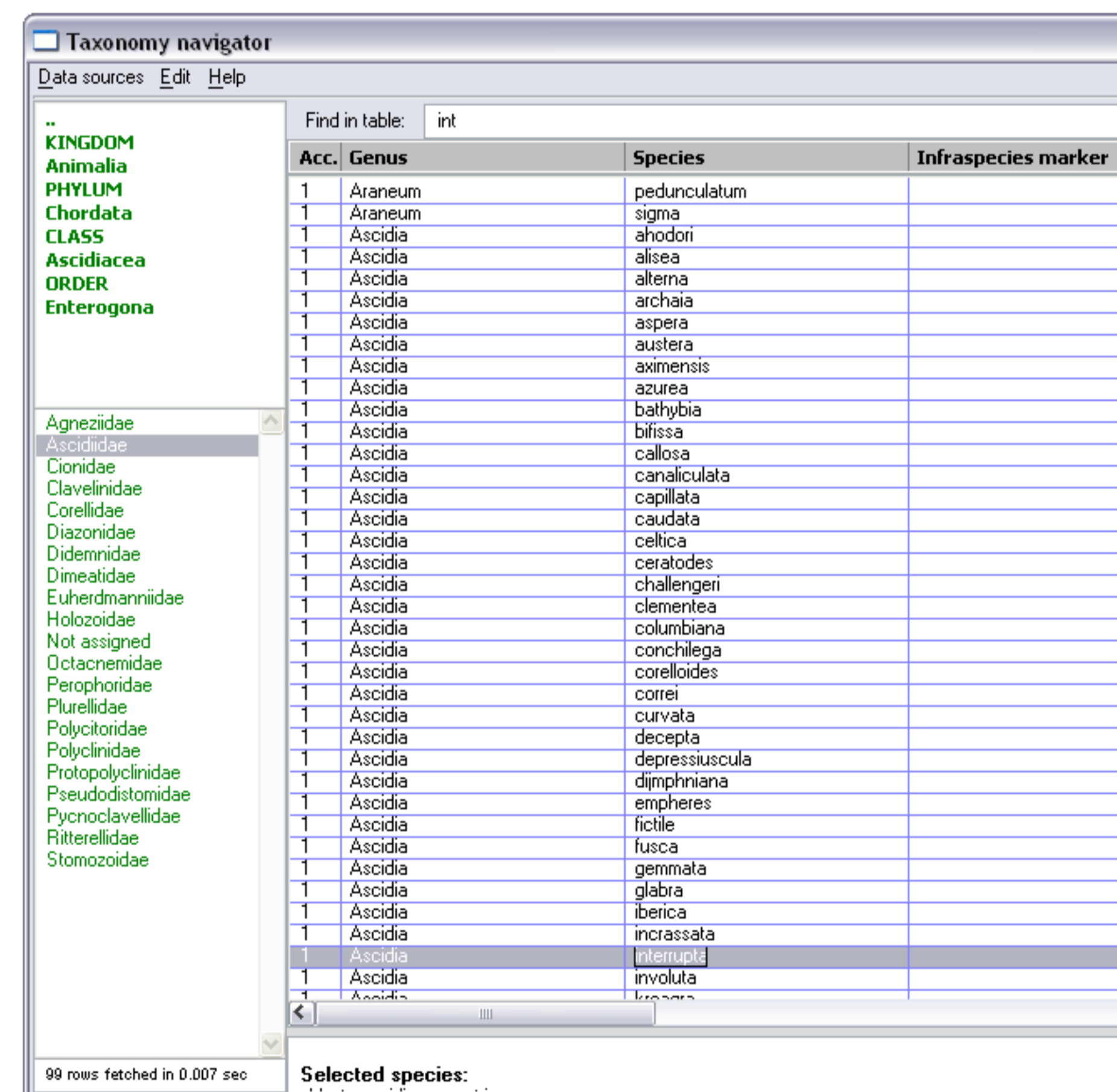


Fig. 4a. Main TxNav window displaying taxonomic browsing results

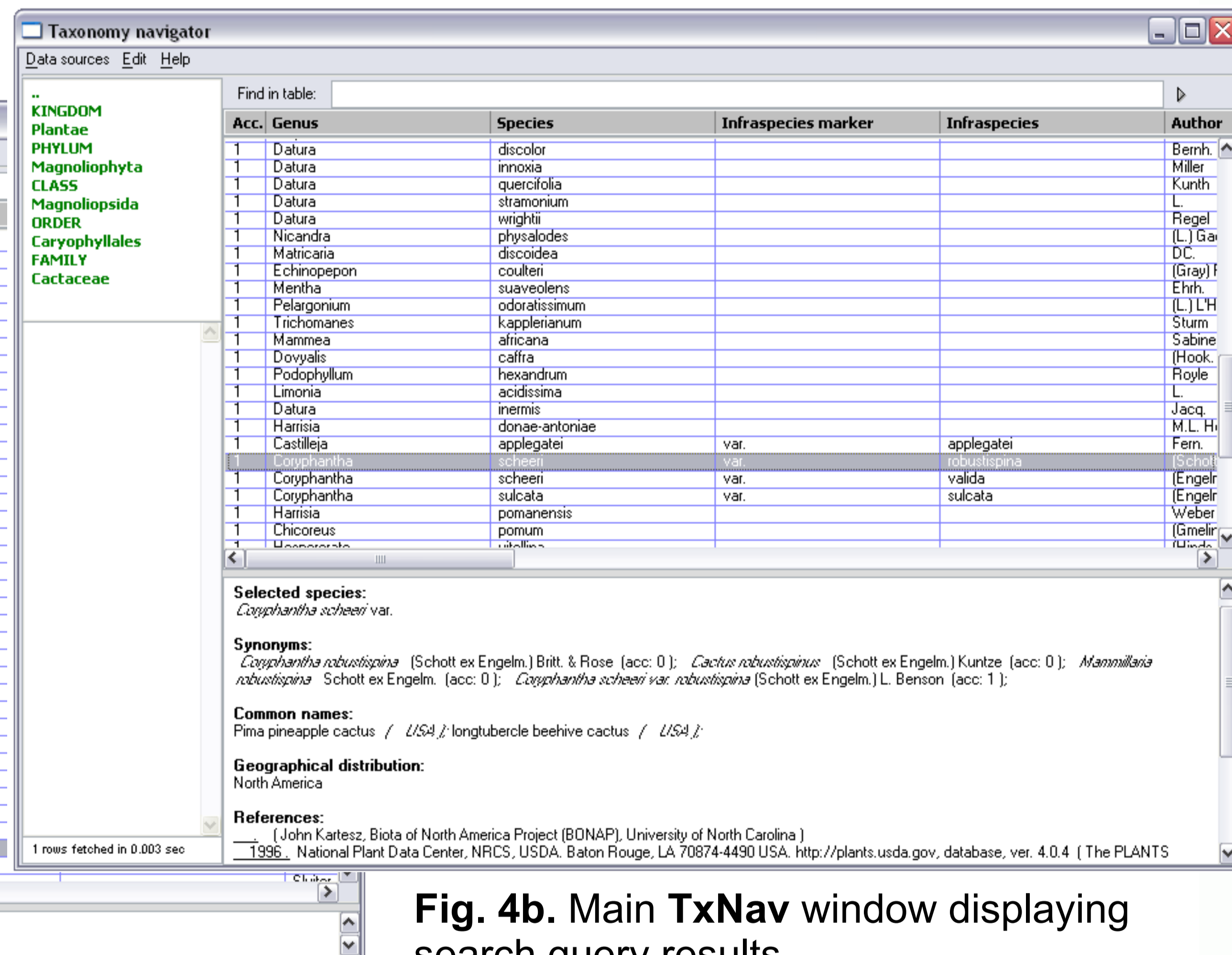


Fig. 4b. Main TxNav window displaying search query results

## Getting started:

- 1) get the most recent ISO image containing CaO database from <http://www.sp2000.org>;
- 2) burn it or extract contents (on MS Windows 7zip software can do this) then install;
- 3) get TxNav zip archive from <http://www.ekoinf.net/TxNav> and extract it anywhere (note, it may refuse to run directly from Windows desktop);
- 4) launch TxNav, go to Data sources/Connect and point to your CaO installation directory, click Connect and wait a second. If you get a warning from Windows firewall asking about whether to block mysqld from accessing the network, choose "allow".

## An alternative way on MS Windows, also concerns MacOSX and Linux users

- 1) get and install MySQL server Community Edition from <http://dev.mysql.com/>;
- 2) as described in 1), 2), 3) above;
- 3) copy data directory from CaO2009/mysql/data/col2009ac to your local mysql data directory or do CaO2009; database dump to SQL and then import into your local MySQL rdbms on platform of your choice using MySQL management tools of your choice;
- 4) start MySQL service;
- 5) in Connect dialogue window omit CaO directory, specify Host, Schema, User, Password as they are set on your MySQL system and start using.