Appendix B

Availability of computer programs

The information presented in this book is of very little practical use without access to computer software specifically designed for multivariate data exploration. Fortunately enough, there have been plenty of computer packages developed for scientific applications, some of them already mentioned in the closing subsections of each chapter. In this appendix, some useful addresses are listed for the benefit of those wishing to obtain programs. The references are admittedly very incomplete because the 'market' of computer software changes very rapidly. Therefore, it is perhaps more useful to provide the address of some web sites that are good starting points for surfing on the internet.

Statistica

The package requires WINDOWS environment. The developer is StatSoft Inc., Tulsa, OK, USA.

BMDP

It is also a WINDOWS application. Write to BMDP Statistical Software Inc., Cork Technology Park, Model Farm Road, Cork, Ireland. Fax: +353 21 542822.

NT-SYS

This program was popular in its DOS version, and now has been modified for WINDOWS as well. See Exeter's home page at the address given below.

SYN-TAX, CANOCO, CANODRAW

These programs may be ordered from Scientia, P.O.Box 658, H-1365, Budapest, Hungary (web site given below). **SYN-TAX 2000** is a WINDOWS program package for 32-byte systems, to be released in the second half of 2000 (Fig. B1), with many new features compared to the earlier DOS version. **CANOCO** is also a WINDOWS application, whereas

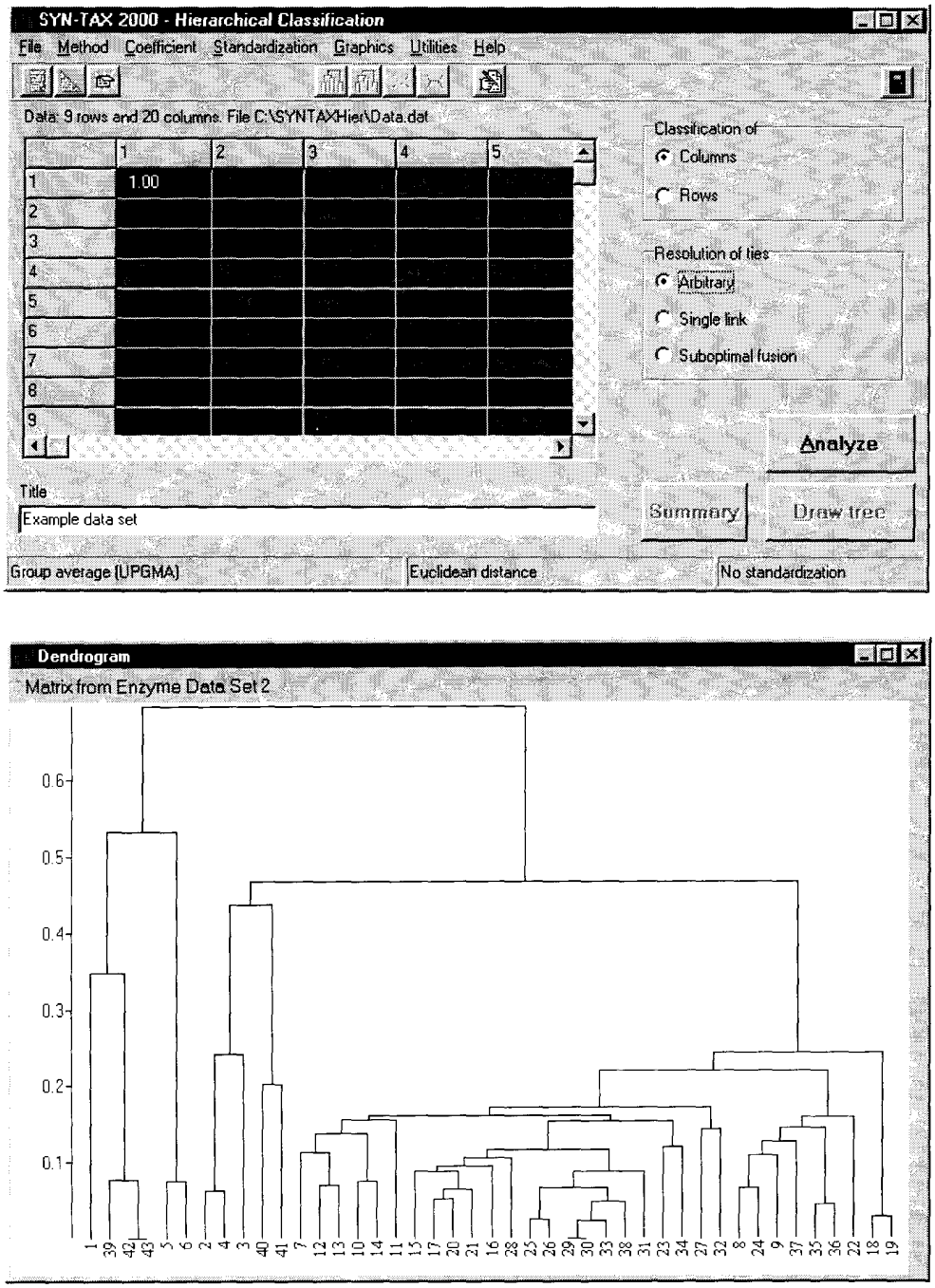

Figure B1. The main window for the hierarchical classification module of **SYN-TAX 2000** (top) and an example of graphics output from the same module (bottom).

CANODRAW, which may be invoked from **CANOCO**, is a nicely written DOS routine to prepare graphics from **CANOCO** outputs.

PHYLIP

The compiled package together with the source code can be obtained free of charge from J. Felsenstein (Univ. of Washington). **PHYLIP** has DOS, WINDOWS, Macintosh and PowerMac versions, all downloadable from the web site shown below.

NuCoSA

To obtain this DOS program, write to B. Tóthmérész B., Dept. Ecology, University of Debrecen, P.O.Box 71, H-4010 Debrecen, Hungary, e-mail: tothmerb@tigris.klte.hu

Important web addresses

Many programs for multivariate data analysis and phylogenetics can be ordered through the internet, or can be downloaded from the web site of the developer. In this book, we cannot give a full list of web sites, which would be impossible to compile anyway. Instead, some key-addresses are given as a good start for an internet search.

Clustering methods

First, you may want to visit the homepage of the Classification Society of North America (CSNA):

http://www.pitt.edu/~csna/

with several links to software developers. See also the author's own web site for upgrading information on **SYN-TAX** at

http://ramet.elte.hu/~podani

Ordination methods

M. Palmer (Oklahoma State University) maintains an ordination web site at

http://bubba.ucc.okstate.edu/artsci/botany/ordinate

There is a list of many ordination programs not even mentioned in this book and, in addition, we can have some useful information on ordination methodology as well. Another useful address where the **MULVA-5** package is found is:

http://www.wsl.ch/land/LandEcology.html

Morphometrics

Information on morphometric programs available through the internet, plus a lot more on geometric morphometry are found at the address:

http://life.bio.sunysb.edu/morph/

You may also want to visit the web site of Exeter Software:

http://www.exetersoftware.com

Cladistics

Prof. J. Felsenstein maintains the Phylogeny Programs web site at:

http://evolution.genetics.washington.edu/phylip/software.html

When I last checked the contents of this site, there were 175 phylogeny programs listed by methods or computer systems, but this number is steadily increasing. This hot-spot site is an invaluable source of information for everyone interested in phylogenetic analysis. Although the site provides an enormous number of links for further orientation, it is worth mentioning the address for **MacClade**:

http://phylogeny.arizona.edu/macclade

the homepage of the Willi Hennig Society:

http://www.vims.edu/~mes/hennig/software.html

and the address with upgrading information on **PAUP**:

http://www.sinauer.com/titles/text/swofford.html