Appendix A: Functions in package dave

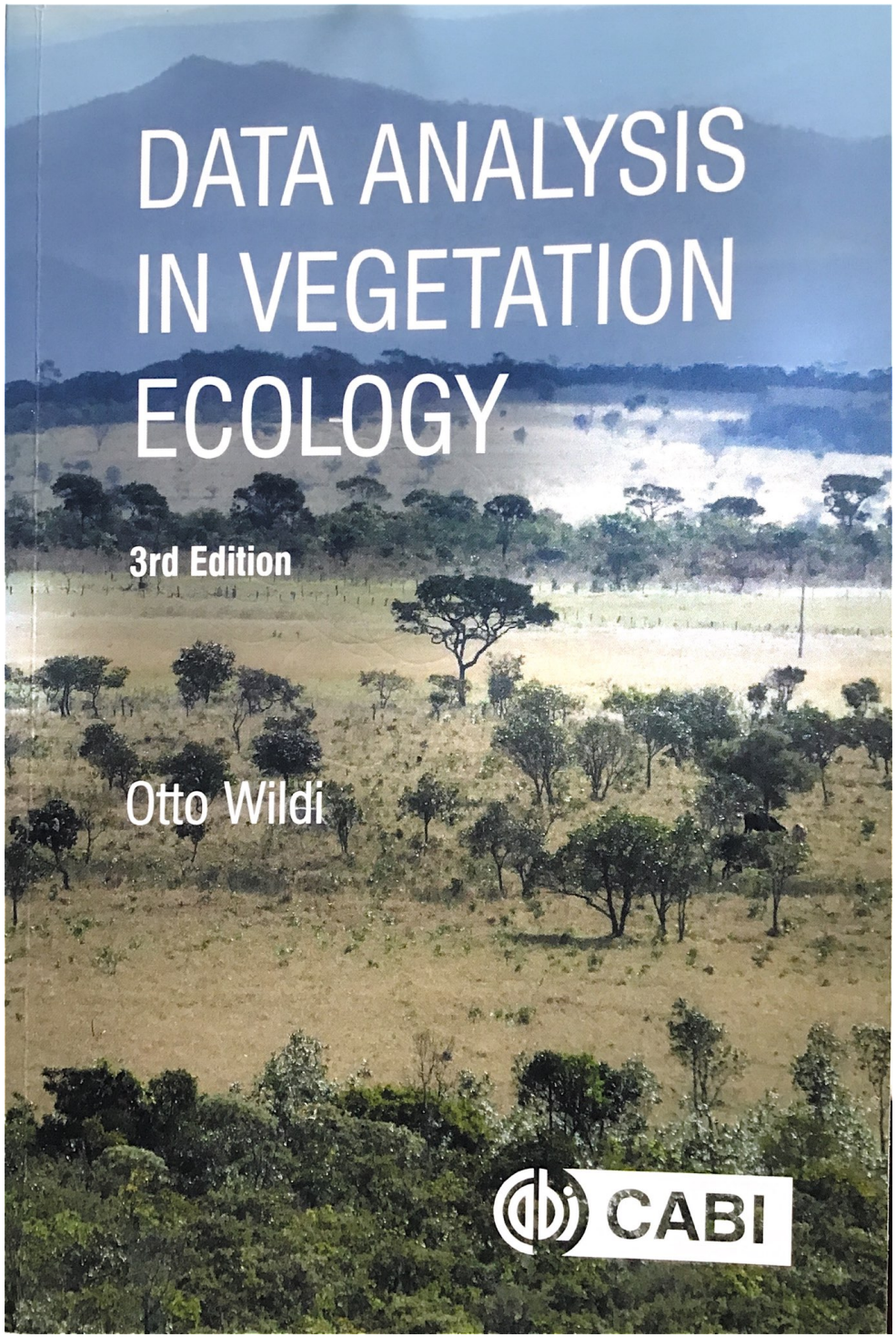
Table 1: Main functions in the R package dave. Requires packages `dabdsv`, `vegan` and `tree` to be loaded in addition to standard downloads of R (R Development Core Team 2016).

Functions	Purpose	Value, S3 class
aocc()	Analysis of concentration	`"aocc"`
ccost()	Cost function to compare two classifications	`"ccost"`
centroid()	Computes group centroids of relevé tables	`"centroid"`
davesil()	Silhouette plots from object `"hclust"`	`"davesil"`
dircor()	Direction dependent autocorrelation	`"dircor"`
fitmarkov()	Fitting a first-order Markov series	`"fitmarkov"`
fspa()	Flexible shortest path adjustment	`"fspa"`
Mtabs()	Ordering vegetation tables in Mulva style	`"Mtabs"`
mxplot()	Draw mean similarities between groups	`"mxplot"`
orank()	Ranking by orthogonal functions	`"orank"`
outlier()	Statistic of outlier relevés	`"outlier"`
overly()	Overlay of vegetation time series	`"overly"`
pcobiplot()	PCOA followed by correlating species	`"pcobiplot"`
pcaser()	Connecting time series in PCA plot	`"pcaser"`
pcovar()	Computing and comparing six PCOA plots	`"pcovar"`
SNPtm()	Dynamic time model of a subalpine pasture	`"SNPtm"`
SNPsm()	Dynamic spatial model of a subalpine pasture	`"SNPsm"`
speedprof()	Velocity profile of a vegetation time series	`"speedprof"`
srank()	Ranking species by indicator- or F-values	`"srank"`
vvelocity()	Phase space plot of a vegetation time series	`"vvelocity"`

Appendix B: Data sets used

Table 2: Data sets included in the R package dave. These data frames are accessed through the names listed in the first column.

Name	Rows; columns	Comments	Reference
EKs	2533; 11	Data set of Swiss forests, site	Ellenberg and Klötzli (1972)
EKv	2533; 1259	Data set of Swiss forests, vegetation	Ellenberg and Klötzli (1972)
ltim	19; 1	Heathland succession data, time scale	Lippe *et al.* (1985)
lveg	19; 9	Heathland succession data, vegetation	Lippe *et al.* (1985)
mveg	25; 94	Ellenberg's (1956) meadow data (vegetation only)	Mueller-Dombois and Ellenberg (1974)
nsit	11; 8	Artificial data of European beech forests, site	Wildi and Orlóci (1996)
nveg	11; 21	Artificial data of European beech forests, vegetation	Wildi and Orlóci (1996)
psit	145; 1	Pollen profile from Soppensee, Switzerland, time scale	Lotter (1999)
pveg	145; 14	Pollen profile from Soppensee, Switzerland, tree species	Lotter (1999)
ssind	119; 9	Indicator values for sveg	Landolt *et al.* (2010)
sspft	119; 23	Species traits for sveg	Landolt *et al.* (2010)
ssit	63; 20	Wetland gradient, site	Wildi (1977)
sveg	63; 119	Wetland gradient, vegetation	Wildi (1977)
sn7sit	97; 2	7 selected time series, Swiss National Park, site	Wildi and Schütz (2000)
sn7veg	97; 6	7 selected time series, Swiss National Park, vegetation	Wildi and Schütz (2000)
sn59sit	751; 2	59 time series, Swiss National Park, site	Wildi and Schütz (2000)
sn59veg	751; 6	59 time series, Swiss National Park, vegetation	Wildi and Schütz (2000)
tsit	16; 2	Time series Tr6, Swiss National Park, site	Wildi and Schütz (2000)
tveg	16; 6	Time series Tr6, Swiss National Park, vegetation	Wildi and Schütz (2000)
vrveg	231; 154	Peat bog Vraconnaz, vegetation	Feldmeyer-Christe *et al.* (2011)
vrsit	231; 26	Peat bog Vraconnaz, site	Feldmeyer-Christe *et al.* (2011)
wetsit	1500; 69	Subsample of wetland plots, site	Graf *et al.* (2010)
wetveg	1500; 1164	Subsample of wetland plots, vegetation	Graf *et al.* (2010)
ws30	726; 1262	Swiss forest grid, 30 m^2 plots, vegetation	Wohlgemuth *et al.* (2008)
ws200	726; 1262	Swiss forest grid, 200 m^2 plots, vegetation	Wohlgemuth *et al.* (2008)
ws500	726; 1262	Swiss forest grid, 500 m^2 plots, vegetation	Wohlgemuth *et al.* (2008)
wssit	726; 20	Swiss forest grid, site (all plots)	Wohlgemuth *et al.* (2008)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CABI