.SCT file format

	SECTION# consecutive integers starting with 1 in row 1	ABBREVIATION three letter maximum, in ‘ ‘	FENCE ORDER consecutive integers 1-number of sections, in any order	NAME Your identifier or name for each section, in single quotes, 20 space maximum.	INCLUDE Just put 1 for all rows
	A	B	C	D	E
1	1	‘DL4’	1	‘Denmark section DL4’	1
2	2	‘KT2’	2	‘Seymour Island KT2’	1

.EVT file format

	TAXON# consecutive integers starting with 1 in the first row	NICKNAME in single quotes	NAME Taxon name in single quotes
	A	B	C
1	1	‘B. aa’	‘Bispathodus aculeatus aculeatus’
2	2	‘B. an’	‘Bispathodus anteposicornis’

.DAT file format.

	TAXON# From EVT file	EVENT TYPE 1/FAD, 2/LAD, 3/acme, 4/marker, 5/age	SECTION# From SCT file	STRAT LEVEL (not 0)	LEVEL #	ALLOWED MOVES 1/FAD, 2/LAD 3/acme, 0/4 or 5	WT UP 1 or young age	WT DN 1 or old age
	A	B	C	D	E	F	G	H
1	1	1	1	0.62	1	1	1	1
2	1	2	1	9.3	3	2	1	1
3	2	1	1	8.4	2	1	1	1
4	2	2	1	8.4	2	2	1	1

THE CONOP9.CFG FILE typical settings

SECTION 1.1

PROJECT = ‘*your own title*’
SECTIONS=*number of sections in .SCT file*
TAXA = *the number of taxa in your .EVT file*
EVENTS = *number of type 3, 4, and 5 events*
MAX_LEVELS=100
MAX_LABELS=30
LOADFILE = ‘*the name of your .DAT file*’
PREPFILE = ‘*OFF.dis*’
SECTFILE = ‘*the name of your .SCT file*’
LABELFILE = ‘*OFF.lbl*’
EVENTFILE = ‘*the name of your .EVT file*’
BESTKNOWN=0.0

SECTION 1.2

PENALTY='LEVEL' *(or interval, eventual, ordinal, spatial, rascal, royal)*
LETCONTRACT='OFF'
WEIGHTING='on'
USENEGATIVE='OFF'
NEARENOUGH=5.00
EXCLUSIVES='yes'
FORCECOEX='ss'
HOMERANGE='sl'
SMOOTHER=0.00
SQUEEZER=0.00
SHRINKER=0.00
TEASER=1.0
STACKER='COEX'

SECTION 1.3

SOLVER='anneal'
STEPS=500
TRIALS=100
STARTEMP=200
RATIO=0.98
HOODSIZE='big'
STARTYPE='rand' *(or file, sect, step ,best, cont)*
STARTSECT=1
STARTEVENT=0
SHOWMOVIES='CHT'
TRAJECTORY='ALL'
VIDEOMODE='SVGA'
PAUSES='ON' *(or OFF, RPT, BAR, ADD, AUT)*
CURVFILE='OFF*con2x32*.grd'
CRV2FILE='OFF*con2x32*.gr2'

SECTION 1.4

COLUMNS=7
UNLOADMAIN='outmain.txt'
  FITS_OUT='ON'
  CNFG_OUT='ON'
  SEQN_OUT='ON'
  INCR_OUT='ON'
  LOC_OUT='ON'
  OBS_OUT='ON'
  COMP_OUT='ON'
UNLOADSECT='outsect.txt'
  SECT_OUT='OFF'
UNLOADEVNT='outevnt.txt'
  EVNT_OUT='ON'
COEX_OUT='COUNT'

RUNLOGFILE='runlog.txt'
CULLFILE='cull.txt'
SOLNLIST='OFFNovice.sln'
STARTFILE='soln.dat'
STEPFILE='OFFstepsoln.dat'
BESTARTFILE='bestsoln.dat'
COMPOSFILE='cmpst.dat'
COMPOSNMBR=1
COMPOSTYPE='ZST'
OBSDFILE='ab.dat'
PLCDFILE='albet.dat'
EXTNFILE='delta.dat'
COEXISTFILE='coex.dat'
ORDERFILE='ordr.dat'

DATA ENTRY STEPS:

1. **Define sections in .SCT**
2. **Define Taxa and Events in .EVT**
3. **Build .DAT file, section by section and sort by A,B,C.**
4. **Edit .CFG file with input file names.**
5. **Run and debug data.**