Appendix V

DISTANCE QUICK REFERENCE

This appendix contains a copy of the DISTANCE Quick Reference Card that was supplied with Versions 2.1 (Laake et al. 1994) and earlier of the program. It is reproduced with permission. This handy reference summarizes the commands and options for DISTANCE.

DISTANCE QUICK REFERENCE CARD

DISTANCE is a command-driven program which can be used interactively or in batch mode

Enter: DIST |-Inputfile O=Outputfile L=Logfile S=Startfile Commands & data must be contained to inputfile:

aleractive mode.

Commands & data are entered at one of four command prompts: DISTANCE, OPTIONS, DATA, ESTIMATE, Help is available by entering HELP. Use END, to complete entry of options, data or estimate input. Terminate DISTANCE by entering EXIT.

The general syntax for commands is:

command base/switch_lawitch_z_switch_n,
Each command must end with a semi-colon () Command
syntax is the same for interactive and batch use. Command
are listed below in alphabetical order, by command prompt.
The command syntax is not shown below, if it is simply the
anne followed by a *;

DISTANCE

ASSIGN - assign filenames

ASSERT HELP - Columns ; CLEAR - clear file contents

CLEAR OUTPUT :

DATA - enter distance sampling data

DOS - execute a DOS command

DOS command_name :

ESTIMATE - define and initiate density estimation LIST - list file contents to acreen

OPTIONS - initiates option entry

PAUSE - pause execution

PRINT - prints option or data values
FRINT | Orlious | ...

STORE - store file contents

SIDRE QUIPUT - filename /APPEND :

OPTIONS-

AREA - set area quantities

AREA /CONVERT: salue /URITS-'132e1';
BOOTSTRAFS - number of hootstrap samples

SOOTSTRAPS-value ;

CUERATE - set cue rate

CURALL - valuel /SErvalue2 ;
DEFAULT : resets options to default values

PWALUE-0.15 RRINT-SELECT SELECTTOM-SEQUENTIAL
TYPE-LINE SQUEEZE-OF OBJECTS-OF SELECT SHALE SUCCESS-OF SELECT SHALE SELECT SHALE SHALE SELECT SELECT SHALE SH

DISTANCE - set distance quantities

EPSILON - fitting tolerance

PSILON-value;

ITERATIONS - maximum number of iterations

ITERATIONS-value .: LENGTH - set length quantities

LENGTH /CONVERT-value /WNTS-'label' /MEASURE.'label' ; LIST- list uption values

LOCKAHEAD : number of added adjustments terms
LOCKAHEAD-value ;
LOCKAHEAD-value ;

MAXTERMS - maximum number of adjustment terms
MAXTERS-value ;

OBJECT - SINGLE or CLUSTER

OBJECT | /SINGLE

OBJECT | /CLUSTER | /EMCT | /INTERNALSTELLS, S. 1. . . . C. |

PRINT - controls amount of output

PRINT- RESULTS : ALL MONE

PVALUE - significance level (a-level)

PVALUE-a ;

SEED - random number seed

SEED-value ;

SELECTION - term selection mode

SELECTION= SEQUENTIAL SELECTION : ALL SPECIFY

SF - sampling fraction

. .

SQUEEZE - controls output pagination

SQUEEZE = OPF

TITLE - value of output title
TITLE ' portitle' ;

TYPE - POINT, LINE or CUE

TYPE - LINE ;

DATA>

Data are structured and entered in a hierarchical manner as in the schematic below:

stratum 1
sample 1
sample 2
sample 2
sample 2
sample 3
scrattens for sample 2
stratum 3
sample 3
chostrations for sample 3
sample 4
observations for sample 4

INFILE - redirects data input to a file

INFILE=filename //ECHD //NOECHD

LIST - list data

SAMPLE - defines effort & begins sample SAMPLE /EFFOST-value /LABEL=Tabel nase*

STRATUM - begins stratum

STRATUM /LABEL-"Tabel name" /AREA-wsize;

OBSERVATION DATA FORMATS

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1. Grouped distances di, di, di, di, di, uli	Grouped distances Grouped cluster sixes	Ungrouped distances Ungrouped cluster sizes	Grouped cluster sizes Ungrouped distances	Line Transects (TYPE=LINE) Radial distance & angle (DISTANCE=RADIAL)	Ungrouped distances fangle Ungrouped cluster sizes	6 Grouped cluster sizes Ungrouped distances/angles	Perpendicular Distance (DISTANCE DERP	Grouped distances Ungrouped cluster stees	Grouped distances Grouped eluster sons	Ungrouped distances Ungrouped cluster stars	Ungrauped distances Grouped duster stres	for 1-1, n (number of observations) d. 1º cook decane measuremen d. 1º cook angle measuremen e. 2º c	For y=1 is inumber of sincervals) df, number of observa ef, number of observa
_	pa	10	4	5	65			t-	60	00	9	32000	発力力

If Object=Single, its not include cluster size data.

ESTIMATES

EXXISTRAP - bootstrap variance/confidence intervals

SAMPLES JOSSERVATIONS :	LUSTERS - analysis treatment of expected cluster size	48 86
/SAMPLES	ment of ex	/IEST-pw
/STRATUM /INSTRATUM	analysis treat	CLUSTERS /WIGTH-value /TEST-pval
BOOTSTRAP	CLUSTERS	CLUSTERS

		33	-			
JNO	* REPLICATE		STRATA REPLICATE	EFFORT	AREA	NONE
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1	TI CKIN		DENSITY			
		10				

DEMSITY by ALL :

DETECTION - detection probability estimation

DISTANCE - analysis treatment of distances

DISTANCE (MIDTH-value /JMTERVALS-X₀,X₀,X₁,X₁,X₁,...,X_r /LUT-1 /RTRINCATE-t /MCLASS-mclass : /SMEAR-angle.pdfsr

ENCOUNTER - encounter rate estimation

ESTIMATOR - model for g(x)

Te ROLY HERMITE	380FR=0,,0;,	START: 4, . 8;	
/ADDUST	- <u>ā</u> -		5 46
UNIFURM HNORMAL NEXPON HAZARD	- SEQUENT FORMARD ALL		JON- ATC
/KE7*	/SELECT	/NAP-na	/CRITERION
CSTIMATOR			

0.0

Go - estimate of g(0) and standard error

Olevalue /SE-value :

COP - intervals for goodness-of-fit test/display

COF / INTERVALS-s₀,x₀,x₀,x₀

or

COF | /SAS | /KCL655-nclass ;

COF JSAS /SPLUS

MONOTONE - monotonicity constraints on g(x)

PICK - method of model choice

PRUNT - detailed control of output

PRINT /YES-option list /NO-option list;

Option List: osed in place of listing all oprions Extract Communications of estimate table controls from the communication of estimate table controls from the communication of estimate table controls from the communication of the controls from the communication of the control of the control

SIZE - expected cluster size estimation

VARF · variance estimation of f(9).

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