COST733CLASS cheat sheet

-help	show help listing
-v <int>	verbosity level, small is quiet
-dat <specification>	input data for one parameter
-clain <specification>	catalog input specification
-cntin <filename>	centroid input file
-cnt <filename>	centroid/type-mean output
-cla <filename>	classification catalog output
-idx <file basename>	various index output file
-dcol <int>	number of date columns to write in output cla
-per <period> 2000:01:01,2008:12:31,1d	time period selection: YYYYMMDDHH,YYYYMMDDHH, <int><y|m|d|h>
-mon <list>	month selection: -mon 12,01,02
-mod	set months to 30 days each
-hrs <list>	hours selection: -hrs 0,6,12,18
-dlist <filename>	file with dates to select
-pca <int|float>	if int: number of PCs for dataset compression after reprocessing; if float: fraction of variance to be retained
-pcw <int|float>	as -pca but PCs will be weighted by their explained variance fraction
-pcr <int>	rotation method: 0 = no rotation, 1 = varimax
-pcc <int>	PCA matrix: 0 = raw product data, 1 = covariance matrix, 2 = correlation matrix
-writedat <filename>	output of preprocessed data
-met <character>	method: JCT, WLK, LIT, GWT, KRZ, PCT, PTT, PXE, ERP, KIR, LND, HCL, KMN, KMD, SAN, CKM, DKM, SOM, RAC, ASC, CNT, CPART, DRAT, EVPF, WSDCIM, FSIL, SIL
-ncl <int>	number of types

-nrun <int>	number of runs/trials
-crit <int>	method dependent criteria
-thres <float>	method dependent threshold
-shift <float>	method dependent shift factor
-step <int>	method dependent stepping
-niter <int>	number of iterations
-dist <int>	type of distance metric
-alpha <float>	tuning factor
-beta <float>	tuning factor
-gamma <float>	tuning factor
-delta <float>	tuning factor
-lambda <float>	tuning factor
OpenGL visualization commands	
-opengl	switch on opengl visualisation
-gljpeg	save frames to image files
-glsize <int>	height and width of window
-glpsize <float>	size of data point spheres
-glcsize <float>	size of centroid spheres
-glstep <int>	frame frequency in some cases
-glpause <float>	pause length in millisec
-glbackground <int>	background color: 1 = white
-glrotangle <float>	frame rotation step in degrees
Flags for -dat (data input) specification:	
pth:<filename>	data file name
var:<character>	variable name for netcdf
fmt:<character>	ascii (netcdf not yet available)
lon:<flt>:<flt>:<flt>	minlon:maxlon:diflon description
lat:<flt>:<flt>:<flt>	minlat:maxlat:diflat description
lev:<list>	hPa-level description
slo:<flt>:<flt>:<flt>	minlon:maxlon:diflon selection
sla:<flt>:<flt>:<flt>	minlat:maxlat:diflat selection
sle:<int>	level selection
arw:<int>	area weighting: 1=cos(lat), 2=sqrt(cos(lat)
scl:<flt>	value scale factor

off:<flt>	value offset (applied after scale)
nrm:<int>	normalisation of objects: 1 = centering, 2 = by sample sdev, 3 = by population sdev
fil:<int>	gaussian time filter of period <int>; int<0 = high-pass, int>0 = low-pass
ano:<int>	anomalies: 1=centering, 2=std(sample), 3=std(popul.), 11=centering for days of year, 12=std for days (sample), 13=std(population), 21= centering for months, 22=std for months (sample), 23= std (population sdev)
pca:<int|flt>	PCA-compression for parameter
pcw:<int@flt>	as @pca but with PC weighting
seq:<int>	length of sequences to build
wgt:<flt>	weighting factor for parameter
dtc:<int>	number of date columns in file
fdt:YYYY:MM:DD:HH	first date of covered period
ldt:YYYY:MM:DD:HH	last date of covered priod
ddt:<int><y|m|d|h>	time steps in years, months, days, hours
mdt:<list>	months covered in data file
cnt:<file>.<ext>	write parameter composit (centroid) to file of format depending on extension: .txt = ascii-xyz data, .nc = netcdf, .ctl = grads data, .grs = grass-gis raster file, .grd = surfer ascii grid, .svc = service format
Flags for -clain (catalog input) specification:	
pth:<filename>	catalog file name
dtc:<int>	number of date columns in file
fdt:YYYYMMDDHH	first date of covered period
ldt:YYYYMMDDHH	last date of covered priod
ddt:<int><y|m|d|h>	time steps in years, months, days, hours
mdt:<list>	months covered in data file