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Climate Data Operators Version 1.0.9 September 2007

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Syntax

Options

-a	Convert from a relative to an absolute time axis
-b < nbits >	Set the number of bits for the output precision
	(32/64 for nc, nc2, srv, ext, ieg; 1 - 32 for grb)
$-\mathbf{f} < format >$	Output file format (grb, nc, nc2, srv, ext, ieg)
-g < grid>	Grid name or file
	Available grids: t <res>grid, r<nx>x<ny></ny></nx></res>
-h	Help information for the operators
-m $<$ $missval >$	Set the default missing value (default: -9e+33)
-R	Convert GRIB data from reduced to regular grid
-r	Convert from an absolute to a relative time axis
$-\mathbf{t} $	Set the parameter table name or file
	Predefined tables: echam4 echam5 mpiom1
-V	Print the version number
-v	Print extra details for some operators

Operators

Information

 \mathbf{vct}

info	Dataset information listed by code number
infov	Dataset information listed by variable name
map	Dataset information and simple map
Syntax	< operator > ifiles
sinfo	Short dataset information listed by code number
sinfov	Short dataset information listed by variable name
Syntax	< operator > ifile
diff	Compare two datasets listed by code number
diffv	Compare two datasets listed by variable name
Syntax	<pre><operator> ifile1 ifile2</operator></pre>
npar	Number of parameters
nlevel	Number of levels
nyear	Number of years
nmon	Number of months
ndate	Number of dates
ntime	Number of time steps
Syntax	$< operator > ext{ifile}$
showformat	Show file format
showcode	CI I I
snowcode	Show code numbers
showcode	Show code numbers Show variable names
showname	Show variable names
showname showstdname	Show variable names Show standard names
showname showstdname showlevel	Show variable names Show standard names Show levels
showname showstdname showlevel showltype	Show variable names Show standard names Show levels Show GRIB level types
showname showstdname showlevel showltype showyear	Show variable names Show standard names Show levels Show GRIB level types Show years
showname showstdname showlevel showltype showyear showmon	Show variable names Show standard names Show levels Show GRIB level types Show years Show months
showname showstdname showlevel showltype showyear showmon showdate	Show variable names Show standard names Show levels Show GRIB level types Show years Show months Show dates
showname showstdname showlevel showltype showyear showmon showdate showtime	Show variable names Show standard names Show levels Show GRIB level types Show years Show months Show dates Show time steps
showname showstdname showlevel showltype showyear shownon showdate showtime Syntax	Show variable names Show standard names Show levels Show GRIB level types Show years Show months Show dates Show time steps <pre>coperator > ifile</pre>

Vertical coordinate table

Syntax < operator > ifile

seldate

selsmon

Syntax

Syntax

Syntax

File operation	ns
copy	Copy datasets
cat	Concatenate datasets
Syntax	<pre><operator> ifiles ofile</operator></pre>
replace	Replace variables
Syntax	replace ifile1 ifile2 ofile
merge	Merge datasets with different fields
mergetime	Merge datasets sorted by date and time
Syntax	<pre><operator> ifiles ofile</operator></pre>
splitcode	Split code numbers
splitname	Split variable names
splitlevel	Split levels
splitgrid	Split grids
splitzaxis	Split zaxis
Syntax	<pre><operator> ifile oprefix</operator></pre>
splithour	Split hours
splitday	Split days
splitmon	Split months
splitseas	Split seasons
splityear	Split years
Syntax	<pre>< operator > ifile oprefix</pre>
splitsel	Split time selection
Syntax	splitsel,nsets[,noffset[,nskip]] ifile oprefix
Selection	
selcode	Select variables by code number
selcode delcode	Delete variables by code number
selcode delcode Syntax	Delete variables by code number <pre></pre> <pre></pre> operator>,codes ifile ofile
selcode delcode Syntax selname	Delete variables by code number < operator >, codes ifile ofile Select variables by name
selcode delcode Syntax selname delname	Delete variables by code number < operator >, codes ifile ofile Select variables by name Delete variables by name
selcode delcode Syntax selname delname Syntax	Delete variables by code number <operator>,codes ifile ofile Select variables by name Delete variables by name <operator>,vars ifile ofile</operator></operator>
selcode delcode Syntax selname delname	Delete variables by code number < operator >, codes ifile ofile Select variables by name Delete variables by name
selcode delcode Syntax selname delname Syntax selstdname	Delete variables by code number <operator>,codes ifile ofile Select variables by name Delete variables by name <operator>,vars ifile ofile Select variables by standard name</operator></operator>
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selseas, seasons ifile ofile

seldate,date1[,date2] ifile ofile

selsmon,month[,nts1[,nts2]] ifile ofile

Select dates

Select single month

sellonlatbox	Select a longitude/latitude box	chcode	Change code number
Syntax	sellonlatbox,lon1,lon2,lat1,lat2 ifile ofile	Syntax	<pre>chcode,oldcode,newcode[,] ifile ofile</pre>
selindexbox	Select an index box	chname	Change variable name
Syntax	selindexbox,idx1,idx2,idy1,idy2 ifile ofile	Syntax	chname,ovar,nvar, ifile ofile
		chlevel	Change level
		Syntax	chlevel,oldlev,newlev, ifile ofile
		chlevelc	Change level of one code
Conditional s	election	Syntax	<pre>chlevelc,code,oldlev,newlev ifile ofile</pre>
		chlevelv	Change level of one variable
ifthen	If then	Syntax	chlevelv,var,oldlev,newlev ifile ofile
ifnotthen	If not then	setgrid	Set grid
Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>	Syntax	setgrid,grid ifile ofile
ifthenelse	If then else	setgridtype	Set grid type
Syntax	ifthenelse ifile1 ifile2 ifile3 ofile	Syntax	setgridtype,gridtype ifile ofile
ifthenc	If then constant	setzaxis	Set zaxis
ifnotthenc	If not then constant	Syntax	setzaxis,zaxis ifile ofile
Syntax	<pre><pre>< operator >, c ifile ofile</pre></pre>	V	,
DJ House	(operator > 1,0 11110 01110	setgatt	Set global attribute
		Syntax	setgatt,attname,attstring ifile ofile
		setgatts	Set global attributes
.		Syntax	setgatts, attfile ifile ofile
Comparison		invertlat	Invert latitude
eq	Equal	invertion	Invert longitude
ne ne	Not equal	invertlatdes	Invert latitude description
le	Less equal	invertiondes	Invert longitude description
lt	Less than	invertlatdata	Invert latitude data
-	Greater equal	invertlondata	Invert longitude data
ge gt	Greater than	Syntax	<pre><operator> ifile ofile</operator></pre>
Syntax	<pre></pre> <pre><operator> ifile1 ifile2 ofile</operator></pre>	maskregion	Mask regions
		Syntax	maskregion,regions ifile ofile
eqc	Equal constant	v	• , •
nec	Not equal constant	masklonlatbox	Mask a longitude/latitude box
lec	Less equal constant	Syntax	masklonlatbox,lon1,lon2,lat1,lat2 ifile ofile
ltc	Less then constant	maskindexbox	Mask an index box
gec	Greater equal constant	Syntax	maskindexbox,idx1,idx2,idy1,idy2 ifile ofile
gtc	Greater then constant	setclonlatbox	Set a longitude/latitude box to constant
Syntax	< operator >, c ifile ofile	Syntax	setclonlatbox,c,lon1,lon2,lat1,lat2 ifile ofile
		setcindexbox	Set an index box to constant
		Syntax	setcindexbox,c,idx1,idx2,idy1,idy2 ifile ofile
		enlarge	Enlarge fields
Modification		Syntax	enlarge,grid ifile ofile
setpartab	Set parameter table		
Syntax	setpartab, table ifile ofile	setmissval	Set a new missing value
setcode	Set code number	Syntax	setmissval,miss ifile ofile
Syntax	setcode,code ifile ofile		Set constant to missing value
setname	Set variable name	setmisstoc Syntax	Set missing value to constant
Syntax	setname,name ifile ofile	setrtomiss	<pre><operator>,c ifile ofile Set renge to mission value</operator></pre>
setlevel	Set level	Syntax	Set range to missing value setrtomiss,rmin,rmax ifile ofile
Syntax	setlevel, level ifile ofile	Symax	setitomiss,rimii,rimax iiiie oiiie
setltype	Set GRIB level type		
Syntax	setltype, ltype ifile ofile		
setdate	Set date	Arithmetic	
Syntax	setdate, date ifile ofile	expr	Evaluate expressions
settime	Set time	Syntax	expr,instr ifile ofile
Syntax	settime, time ifile ofile	exprf	Evaluate expressions from script file
setday	Set day	Syntax	exprf,filename ifile ofile
Syntax	setday,day ifile ofile		Absolute value
setmon	Set month	abs int	Integer value
Syntax	setmon, month ifile ofile	nint	Nearest integer value
setyear	Set year		- Contract of the Contract of
Syntax	setyear, year ifile ofile	sqr	Square Square root
settunits	Set time units	sqrt exp	Exponential
Syntax	settunits,units ifile ofile	ln	Natural logarithm
settaxis	Set time axis	log10	Base 10 logarithm
Syntax	settaxis,date,time[,inc] ifile ofile	sin	Sine
setreftime	Set reference time	cos	Cosine
Syntax	setreftime, date, time ifile ofile	tan	Tangent
setcalendar	Set calendar		Arc sine
Syntax	setcalendar, calendar ifile ofile	asin acos	Arc sine Arc cosine
	Shift time steps		
shifttime	shifttime.sval ifile ofile	atan Syntax	Arc tangent <operator> ifile ofile</operator>
Syntax			

addc	Add a constant	vertmin	Vertical minimum	yearmin	Yearly minimum	Regression	
subc	Subtract a constant	vertmax	Vertical maximum	yearmax	Yearly maximum	1	D . 1
mulc divc	Multiply with a constant Divide by a constant	vertsum vertmean	Vertical sum Vertical mean	yearsum	Yearly sum Yearly mean	detrend Syntax	Detrend detrend ifile ofile
Syntax	v	vertnean	Vertical mean Vertical average	yearmean yearavg	Yearly average		
	· · · · · · · · · · · · · · · · · · ·	vertvar	Vertical variance	yearvar	Yearly variance	trend	Trend
add	Add two fields Subtract two fields	vertstd	Vertical standard deviation	yearstd	Yearly standard deviation	Syntax	trend ifile ofile1 ofile2
sub mul	Multiply two fields	Syntax	<pre><operator> ifile ofile</operator></pre>	Syntax	<pre><operator> ifile ofile</operator></pre>	subtrend	Subtract trend
div	Divide two fields	timselmin	Time range minimum	yearpctl	Yearly percentiles	Syntax	subtrend ifile1 ifile2 ifile3 ofile
min	Minimum of two fields	timselmin	Time range maximum		yearpctl,p ifile1 ifile2 ifile3 ofile		
max	Maximum of two fields	timselsum	Time range sum			1	
atan2	Arc tangent of two fields	timselmean	Time range mean	seasmin	Seasonal minimum Seasonal maximum		
Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>	timselavg	Time range average	seasmax seassum	Seasonal sum	Interpolation	
ymonadd	Add multi-year monthly time average	$_{ m timselvar}$	Time range variance	seasmean	Seasonal mean	nomonbil	Bilinear interpolation
ymonsub	Subtract multi-year monthly time average	timselstd	Time range standard deviation	seasavg	Seasonal average	remapbil remapbic	Bicubic interpolation
ymonmul	Multiply multi-year monthly time average	Syntax	<pre><operator>,nsets[,noffset[,nskip]] ifile ofile</operator></pre>	seasvar	Seasonal variance	remapson	Conservative remapping
ymondiv	Divide multi-year monthly time average	timselpctl	Time range percentiles	seasstd	Seasonal standard deviation	remapdis	Distance-weighted averaging
Syntax	$<\!operator\!>$ ifile1 ifile2 ofile	Syntax	<pre>timselpctl,p,nsets[,noffset[,nskip]] ifile1 ifile2 i</pre>	Syntax	< operator > ifile ofile	Syntax	<pre><operator>,grid ifile ofile</operator></pre>
muldpm	Multiply with days per month	runmin	Running minimum	seaspctl	Seasonal percentiles	genbil	Generate bilinear interpolation weights
divdpm	Divide by days per month	runmax	Running maximum	Syntax	seaspctl,p ifile1 ifile2 ifile3 ofile	genbic	Generate bicubic interpolation weights
muldpy	Multiply with days per year	runsum	Running sum	yhourmin	Multi-year hourly minimum	gencon	Generate conservative interpolation weights
divdpy	Divide by days per year	runmean	Running mean	yhourmax	Multi-year hourly maximum Multi-year hourly maximum	gendis	Generate distance-weighted averaging weights
Syntax	$<\!operator\!>$ ifile ofile	runavg	Running average	yhoursum	Multi-year hourly sum	Syntax	<pre><operator>,grid ifile ofile</operator></pre>
		runvar	Running variance	yhourmean	Multi-year hourly mean	remap	SCRIP grid remapping
		runstd	Running standard deviation	yhouravg	Multi-year hourly average	Syntax	remap,grid,weights ifile ofile
		Syntax	<pre><operator>,nts ifile ofile</operator></pre>	yhourvar	Multi-year hourly variance		
		runpctl	Running percentiles	yhourstd	Multi-year hourly standard deviation	interpolate intgridbil	PINGO grid interpolation Bilinear grid interpolation
		Syntax	runpctl,p,nts ifile1 ofile	Syntax	$<\!operator\!>$ ifile ofile	Syntax	<pre><pre>< operator > ,grid ifile ofile</pre></pre>
Statistical val	ues	timmin	Time minimum	ydaymin	Multi-year daily minimum		
		timmax	Time maximum	ydaymax	Multi-year daily maximum	remapeta Syntax	Remap vertical hybrid level remapeta,vct[,oro] ifile ofile
ensmin	Ensemble minimum	timsum	Time sum	ydaysum	Multi-year daily sum		
ensmax	Ensemble maximum	timmean	Time mean	ydaymean	Multi-year daily mean	ml2pl	Model to pressure level interpolation
enssum	Ensemble sum	timavg	Time average	ydayavg	Multi-year daily average	Syntax	ml2pl,plevels ifile ofile
ensmean	Ensemble mean	timvar	Time variance	ydayvar	Multi-year daily variance	ml2hl	Model to height level interpolation
ensavg	Ensemble average	timstd	Time standard deviation	ydaystd	Multi-year daily standard deviation	Syntax	ml2hl,hlevels ifile ofile
ensvar ensstd	Ensemble variance Ensemble standard deviation	Syntax	<pre><operator> ifile ofile</operator></pre>	Syntax	<pre><operator> ifile ofile</operator></pre>	inttime	Time interpolation
Syntax	<pre><pre>< operator > ifiles ofile</pre></pre>	timpctl	Time percentiles	ydaypctl	Multi-year daily percentiles	Syntax	inttime,date,time[,inc] ifile ofile
enspctl	Ensemble percentiles	Syntax	timpctl,p ifile1 ifile2 ifile3 ofile	Syntax	ydaypctl,p ifile1 ifile2 ifile3 ofile	intntime	Time interpolation
Syntax	enspctl,p ifiles ofile	hourmin	Hourly minimum	ymonmin	Multi-year monthly minimum	Syntax	intntime,n ifile ofile
fldmin	Field minimum	hourmax	Hourly maximum	ymonmax	Multi-year monthly maximum	intyear	Year interpolation
fldmax	Field maximum	hoursum	Hourly sum	ymonsum	Multi-year monthly sum	Syntax	intyear, years ifile1 ifile2 oprefix
fldsum	Field sum	hourmean	Hourly mean Hourly average	ymonmean	Multi-year monthly mean Multi-year monthly average		
fldmean	Field mean	houravg hourvar	Hourly variance	ymonavg ymonvar	Multi-year monthly variance		
fldavg	Field average	hourstd	Hourly standard deviation	ymonstd	Multi-year monthly standard deviation		
fldvar	Field variance	Syntax	<pre><pre><pre><pre>coperator > ifile ofile</pre></pre></pre></pre>	Syntax	<pre><pre>coperator > ifile ofile</pre></pre>	Transformation	on
fldstd	Field standard deviation	hourpetl	Hourly percentiles	ymonpctl	Multi-year monthly percentiles	sp2gp	Spectral to gridpoint
Syntax	<pre><operator> ifile ofile</operator></pre>	Syntax	hourpctl,p ifile1 ifile2 ifile3 ofile	Syntax	ymonpctl,p ifile1 ifile2 ifile3 ofile	sp2gpl	Spectral to gridpoint (linear)
fldpctl Syntax	Field percentiles fldpctl,p ifile ofile		2 72			$_{ m gp2sp}$	Gridpoint to spectral
	- /*	daymin	Daily minimum Daily maximum	yseasmin	Multi-year seasonal minimum Multi-year seasonal maximum	gp2spl	Gridpoint to spectral (linear)
zonmin	Zonal minimum	daymax daysum	Daily maximum Daily sum	yseasmax yseassum	Multi-year seasonal maximum Multi-year seasonal sum	Syntax	<pre><operator> ifile ofile Spectral to spectral</operator></pre>
zonmax zonsum	Zonal maximum Zonal sum	daymean	Daily mean	yseasmean	Multi-year seasonal mean	sp2sp Syntax	sp2sp,trunc ifile ofile
zonsum zonmean	Zonal sum Zonal mean	dayavg	Daily average	yseasavg	Multi-year seasonal average	spcut	Cut spectral wave number
zonavg	Zonal average	dayvar	Daily variance	yseasvar	Multi-year seasonal variance	Syntax	spcut,wnums ifile ofile
zonvar	Zonal variance	daystd	Daily standard deviation	yseasstd	Multi-year seasonal standard deviation	dv2uv	Divergence and vorticity to U and V wind
zonstd	Zonal standard deviation	Syntax	<pre><operator> ifile ofile</operator></pre>	Syntax	$<\!operator\!>$ ifile ofile	dv2uvl	Divergence and vorticity to U and V wind (linear)
Syntax	$<\!operator\!>$ ifile ofile	daypctl	Daily percentiles	yseaspctl	Multi-year seasonal percentiles	uv2dv	U and V wind to divergence and vorticity
zonpctl	Zonal percentiles	Syntax	daypctl,p ifile1 ifile2 ifile3 ofile	Syntax	yseaspctl, p ifile1 ifile2 ifile3 ofile	uv2dvl	U and V wind to divergence and vorticity (linear)
Syntax	zonpctl,p ifile ofile	monmin	Monthly minimum	ydrunmin	Multi-year daily running minimum	Syntax	<pre><operator> ifile ofile</operator></pre>
mermin	Meridional minimum	monmax	Monthly maximum	ydrunmax	Multi-year daily running maximum		
mermax	Meridional maximum	monsum	Monthly sum	ydrunsum	Multi-year daily running sum		
mersum	Meridional sum	monmean	Monthly mean	ydrunmean	Multi-year daily running mean		
mermean	Meridional mean	monavg	Monthly average	ydrunavg	Multi-year daily running average	Formatted I/	0
meravg	Meridional average	monvar	Monthly variance	ydrunvar	Multi-year daily running variance	immut	ACCII input
mervar merstd	Meridional variance Meridional standard deviation	monstd	Monthly standard deviation	ydrunstd	Multi-year daily running standard deviation	input Syntax	ASCII input input,grid ofile
Syntax	<pre></pre>	Syntax	<pre><operator> ifile ofile</operator></pre>	Syntax	<pre><operator>,nts ifile ofile</operator></pre>	inputsrv	SERVICE input
merpctl	Meridional percentiles	monpctl	Monthly percentiles	ydrunpctl	Multi-year daily running percentiles	inputext	EXTRA input
	merpctl,p ifile ofile	Syntax	monpctl,p ifile1 ifile2 ifile3 ofile	Syntax	ydrunpctl,p,nts ifile1 ifile2 ifile3 ofile	Syntax	<pre><pre>< operator > ofile</pre></pre>
	- *						-

output	ASCII output	eca fd	Frost days index per time period
Syntax	output ifiles	Syntax	eca_fd ifile ofile
outputf	Formatted output		
Syntax	outputf,format,nelem ifiles Integer output	eca_gsl Syntax	Growing season length index eca_gsl[,nday[,T]] ifile ofile
outputsrv	SERVICE output	eca_hd Syntax	Heating degree days per time period eca_hd[,T1[,T2]] ifile ofile
outputext Syntax	EXTRA output <operator> ifiles</operator>		
Syntax	operator > 1111es	eca_hwdi Syntax	Heat wave duration index wrt mean of reference pe eca_hwdi[,nday[,T]] ifile1 ifile2 ofile
/Iiscellaneous		eca_hwfi Syntax	Warm spell days index wrt 90th percentile of reference a hwfi[,nday] ifile1 ifile2 ofile
gradsdes1	Grads data descriptor file (version 1 Grib map)		
gradsdes2 Syntax	GrADS data descriptor file (version 2 GRIB map) < operator > ifile	eca_id Syntax	Ice days index per time period eca_id ifile ofile
smooth9 Syntax	9 point smoothing smooth9 ifile ofile	eca_r10mm Syntax	Heavy precipitation days index per time period eca_r10mm ifile ofile
v			
setrtoc	Set range to constant	eca_r20mm	Very heavy precipitation days index per time period
Syntax	setrtoc,rmin,rmax,c ifile ofile	Syntax	eca_r20mm ifile ofile
setrtoc2	Set range to constant others to constant2	eca_r75p	Moderate wet days wrt 75th percentile of reference
Syntax	setrtoc2,rmin,rmax,c,c2 ifile ofile	Syntax	eca_r75p ifile1 ifile2 ofile
timsort	Sort over the time	eca_r75ptot	Precipitation percent due to R75p days
Syntax	timsort ifile ofile	Syntax	eca_r75ptot ifile1 ifile2 ofile
const	Create a constant field		
Syntax	const,const,grid ofile Create a field with random values	eca_r90p Syntax	Wet days wrt 90th percentile of reference period eca_r90p ifile1 ifile2 ofile
Syntax	random, grid ofile	eca_r90ptot	Precipitation percent due to R90p days
v	70	Syntax	eca_r90ptot ifile1 ifile2 ofile
rotuvb	Backward rotation		
Syntax	rotuvb,u,v, ifile ofile	eca_r95p	Very wet days wrt 95th percentile of reference per
mastrfu	Mass stream function	Syntax	eca_r95p ifile1 ifile2 ofile
Syntax	mastrfu ifile ofile	eca_r95ptot Syntax	Precipitation percent due to R95p days eca_r95ptot ifile1 ifile2 ofile
$_{ m hist}$ count	Histogram count		
histsum	Histogram sum	eca_r99p	Extremely wet days wrt 99th percentile of reference
histmean	Histogram mean	Syntax	eca_r99p ifile1 ifile2 ofile
histfreq Syntax	Histogram frequency <operator>,bins ifile ofile</operator>	eca_r99ptot Syntax	Precipitation percent due to R99p days eca_r99ptot ifile1 ifile2 ofile
wct	Windchill temperature (C)		
Syntax	wct ifile1 ifile2 ofile	eca_rr1	Wet days index per time period
fdns	Frost days where no snow index per time period	Syntax	eca_rr1 ifile ofile
Syntax	fdns ifile1 ifile2 ofile	eca_rx1day Syntax	Highest one day precipitation amount per time per eca_rx1day[,mode] ifile ofile
strwin	Strong wind days index per time period	eca_rx5day	Highest five-day precipitation amount per time per
Syntax	strwin[,v] ifile ofile	Syntax	eca_rx5day[,x] ifile ofile
strbre	Strong breeze days index per time period	eca_sdii	Simple daily intensity index per time period
Syntax	strbre ifile ofile	Syntax	eca_sdii ifile ofile
strgal	Strong gale days index per time period	eca_su	Summer days index per time period
Syntax	strgal ifile ofile Hurricane days index per time period	Syntax	eca_su[,T] ifile ofile
Syntax	hurr ifile ofile	eca_tg10p Syntax	Cold days percent wrt 10th percentile of reference eca_tg10p ifile1 ifile2 ofile
CA indices		eca_tg90p Syntax	Warm days percent wrt 90th percentile of reference eca_tg90p ifile1 ifile2 ofile
eca_cdd	Consecutive dry days index per time period	eca_tn10p	Cold nights percent wrt 10th percentile of reference
Syntax	eca_cdd ifile ofile	Syntax	eca_tn10p ifile1 ifile2 ofile
eca_cfd Syntax	Consecutive frost days index per time period eca_cfd ifile ofile	eca_tn90p Syntax	Warm nights percent wrt 90th percentile of referencea_tn90p ifile1 ifile2 ofile
eca_csu Syntax	Consecutive summer days index per time period eca_csu[,T] ifile ofile	eca_tr Syntax	Tropical nights index per time period eca.tr[,T] ifile ofile
		·	<i>V</i> 3
eca_cwd Syntax	Consecutive wet days index per time period eca_cwd ifile ofile	eca_tx10p Syntax	Very cold days percent wrt 10th percentile of refereca_tx10p ifile1 ifile2 ofile
eca_cwdi	Cold wave duration index wrt mean of reference pe	riceka tx90n	Very warm days percent wrt 90th percentile of ref
Syntax	cold wave duration index with mean of reference per eca_cwdi[, $nday[,T]$] ifile1 ifile2 ofile	Syntax	eca_tx90p ifile1 ifile2 ofile
eca_cwfi Syntax	Cold-spell days index wrt 10th percentile of referer eca_cwfi[,nday] ifile1 ifile2 ofile	ice period	
oca otr	Intra-period extreme temperature range	· 	
eca_etr Syntax	eca_etr ifile1 ifile2 ofile		
Syntax	eca_eur liller lillez OIlle		