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Climate Data Operators Version 1.0.9 September 2007

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Syntax

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Options

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
-s	Silent mode
-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

showyear

showmon

showdate

 $\mathbf{showtime}$

pardes griddes

vct

Syntax

Information	
info	Dataset information listed by code number
infov	Dataset information listed by variable name
map	Dataset information and simple map
Syntax	<pre><operator> ifiles</operator></pre>
sinfo	Short dataset information listed by code number
sinfov	Short dataset information listed by variable nam
Syntax	<pre><operator> ifile</operator></pre>
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 > ifile
showformat	Show file format
showcode	Show code numbers
showname	Show variable names
showstdname	Show standard names
showlevel	Show levels
showltype	Show GRIB level types

Show years

Show months

Show time steps

<operator> ifile Parameter description Grid description

Vertical coordinate table

Show dates

Syntax operator > ifile

File operation	ıs
copy	Copy datasets
cat	Concatenate datasets
Syntax	$<\!operator\!>$ ifiles ofile
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	< operator > ifile oprefix
splitsel	Split time selection
Syntax	<pre>splitsel,nsets[,noffset[,nskip]] ifile oprefix</pre>
Selection	
selcode	Select variables by code number
delcode	Delete variables by code number
Syntox	<pre>concretor> and as ifile afile</pre>

	seicode	Select variables by code number		
	delcode	Delete variables by code number		
	Syntax	<pre><operator>,codes ifile ofile</operator></pre>		
	selname	Select variables by name		
	delname	Delete variables by name		
	Syntax	<pre><operator>,vars ifile ofile</operator></pre>		
	selstdname	Select variables by standard name		
	Syntax	selstdname,stdnames ifile ofile		
	sellevel	Select levels		
	Syntax	sellevel, levels ifile ofile		
	selgrid	Select grids		
er	Syntax	selgrid,grids ifile ofile		
me	selgridname	Select grids by name		
	Syntax	selgridname, gridnames ifile ofile		
	selzaxis	Select zaxes		
	Syntax	selzaxis,zaxes ifile ofile		
	selzaxisname	Select zaxes by name		
	Syntax	selzaxisname,zaxisnames ifile ofile		
	selltype	Select GRIB level types		
	Syntax	selltype,ltypes ifile ofile		
	seltabnum	Select parameter table numbers		
	Syntax	seltabnum,tabnums ifile ofile		
	seltimestep	Select time steps		
	Syntax	seltimestep, timesteps ifile ofile		
	seltime	Select times		
	Syntax	seltime, times ifile ofile Select hours		
		selhour, hours ifile ofile		
	Syntax	Select days		
		selday,days ifile ofile		
	Syntax	Select months		
	Syntax	selmon, months ifile ofile		
	selvear	Select years		
	Syntax	selyear, years ifile ofile		
	selseas	Select seasons		
	Syntax	selseas.seasons ifile ofile		
	seldate	Select dates		
	Syntax	seldate,date1[,date2] ifile ofile		
	selsmon	Select single month		
	Syntax	selsmon, month[,nts1[,nts2]] ifile ofile		

sellonlatbox	Select a longitude/latitude box	chcode	Change code number
Syntax	sellonlatbox,lon1,lon2,lat1,lat2 ifile ofile	Syntax	${f chcode}, oldcode, newcode[,]$ ifile ofile
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	chlevelc,code,oldlev,newlev ifile ofile
10.1	TC :1	chlevelv	Change level of one variable
ifthen	If then	Syntax	chlevelv,var,oldlev,newlev ifile ofile
ifnotthen Syntax	If not then	setgrid	Set grid
	<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	< operator >, c ifile ofile	setgatt	Set global attribute
		Syntax	setgatt, attname, attstring ifile ofile
		setgatts	Set global attributes
		Syntax	setgatts,attfile ifile ofile
Comparison			
Comparison		invertlat	Invert latitude
eq	Equal	invertion	Invert longitude
ne	Not equal	invertlatdes invertlondes	Invert latitude description Invert longitude description
le	Less equal		Invert latitude data
lt	Less than	invertlatdata invertlondata	Invert latitude data Invert longitude data
ge	Greater equal	Syntax	<pre>coperator > ifile ofile</pre>
gt	Greater than		^
Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>	maskregion	Mask regions
eqc	Equal constant	Syntax	maskregion,regions ifile ofile
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	setctomiss	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 range to missing value</operator></pre>
setlevel	Set level	Svntax	setrtomiss.rmin.rmax ifile ofile
Syntax	setlevel, level ifile ofile	Dyntax	setitomiss, mm, max 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
	settime, time ifile ofile Set day	exprf Syntax	Evaluate expressions from script file exprf, filename ifile ofile
Syntax		Syntax	
Syntax setday Syntax setmon	Set day setday,day ifile ofile Set month		exprf, filename ifile ofile
Syntax setday Syntax setmon Syntax	Set day setday,day ifile ofile Set month setmon,month ifile ofile	Syntax	exprf,filename ifile ofile Absolute value
Syntax setday Syntax setmon Syntax setyear	Set day setday,day ifile ofile Set month setmon,month ifile ofile Set year	Syntax abs int	exprf,filename ifile ofile Absolute value Integer value
Syntax setday Syntax setmon Syntax setyear Syntax	Set day setday,day ifile ofile Set month setmon,month ifile ofile Set year setyear,year ifile ofile	Syntax abs int nint	Absolute value Integer value Nearest integer value Square Square root
Syntax Setday Syntax Setmon Syntax Setyear Syntax Settunits	Set day setday,day ifile ofile Set month setmon,month ifile ofile Set year setyear,year ifile ofile Set time units	abs int nint sqr sqrt exp	Absolute value Integer value Nearest integer value Square Square root Exponential
Syntax Setday Syntax Setmon Syntax Setyear Syntax Settunits Syntax	Set day setday,day ifile ofile Set month setmon,month ifile ofile Set year setyear,year ifile ofile Set time units settunits,units ifile ofile	abs int nint sqr sqrt exp ln	Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm
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			Syntax	hourpctl,p ifile1 ifile2 ifile3 ofile	•			
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Add			Syntax	< operator > ifile ofile	ml2pl	Model to pressure level interpolation		-
Section Adjustment of the Control Section Sectio		*	davpctl	Daily percentiles	Syntax	ml2pl,plevels ifile ofile		
Book					ml2hl	Model to height level interpolation		^ -
Section of the field Property			mon < CT AT >	Monthly statistical values	Syntax	ml2hl,hlevels ifile ofile		
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Speed of support of my of helps Speed of support of helps Spee				v .			Syntax	
Symbol S			Syntax	monpctl,p ifile1 ifile2 ifile3 ofile	Syntax	intntime,n ifile ofile	ctmuin	Strong wind days index nor time noried
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Transferred	1 *				sp2gp	Spectral to gridpoint	Syntax	strgal ifile ofile
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Spring Spring Street St			Syntax	seaspctl,p ifile1 ifile2 ifile3 ofile				
Statistical values Signate Specials S			vhour< ST AT	Multi-year hourly statistical values	Syntax	<pre><operator> ifile ofile</operator></pre>		
Statistical values Statistical values			1 *	,	sp2sp	Spectral to spectral	ECA indices	
System Comments of the comment	DJ IIII	(Operator > 11110 01110			Syntax	$\mathbf{sp2sp},trunc$ ifile ofile		
Adaptive statistical functions					spcut	Cut spectral wave number		, , , , ,
Available statistical functions (STAT) maximum min maximum max maximum	Statistical rel	luos	Syntax	<pre><operator> ifile ofile</operator></pre>	Syntax	spcut,wnums ifile ofile	Syntax	eca_cdd ifile ofile
Assistable statistical functions Minimum			ydaypctl	Multi-year daily percentiles	dv2uv	Divergence and vorticity to U and V wind	eca_cfd	Consecutive frost days index per time period
maximum sum sum sum sum sum sum sum sum sum			Syntax	ydaypctl,p ifile1 ifile2 ifile3 ofile		Divergence and vorticity to U and V wind (linear)	Syntax	eca_cfd ifile ofile
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Description Comparison Co				ů ů	uv2dvl	U and V wind to divergence and vorticity (linear)	1	
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Systax coperator > filtee of the Systax support Systax			Syntax	<pre><operator> ifile ofile</operator></pre>	input	ASCII input	Syntax	eca_cwdi[,nday[,T]] ifile1 ifile2 ofile
Syntax Syn		I .	yseaspctl	Multi-year seasonal percentiles	Syntax	input,grid ofile	eca_cwfi	Cold-spell days index wrt 10th percentile of reference
Second				yseaspctl,p ifile1 ifile2 ifile3 ofile	inputsrv	SERVICE input		
Syntax Statistical values over a field Syntax Sopretard > 1file of file Syntax Sy			vdmin < ST AT		inputext	EXTRA input	ooo otu	Intro posical automore temporature nonce
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concept content cont		*	Syntax	ydrunpctl,p,nts ifile1 ifile2 ifile3 ofile	outputf	Formatted output	Syntax	eca_fd ifile ofile
Syntax Coperator > if its of the Syntax Coper	Syntax	fldpctl,p ifile ofile	J		Syntax	outputf, format, nelem ifiles	eca_gsl	Growing season length index
Syntax Coperator Syntax S	zon < STAT >	Zonal statistical values	D		outputint		Syntax	$eca_gsl[,nday[,T]]$ ifile ofile
Zonget Zonal percentiles Syntax Zonget	Syntax	< operator > ifile ofile	Regression		-		eca hd	Heating degree days per time period
Syntax S					_	-		
Frend Syntax Sy	Syntax	$\mathbf{zonpctl}, p$ ifile ofile	Syntax	detrend ifile ofile	Syntax	<pre><operator> ifiles</operator></pre>		D D 33
Syntax S	mer < STAT >	Meridional statistical values	trend	Trend				-
Meridonal percentiles Subtract x trend Syntax Meridonal percentiles Syntax	Syntax	<pre><operator> ifile ofile</operator></pre>	Syntax	trend ifile ofile1 ofile2	Misgollanoous	,	Syntax	eca_nwdi[,nday[,1]] ifile1 ifile2 ofile
Syntax S	merpctl	Meridional percentiles	auhtnon d	Cubting at them d			eca_hwfi	Warm spell days index wrt 90th percentile of referen
Vertical statistical values Syntax Coperator > iffile offile	Syntax	merpctl,p ifile ofile					Syntax	eca_hwfi[,nday] ifile1 ifile2 ofile
Syntax Coperator> Syntax Synta	riont < CT AT >		Syntax	Subtrend IIIIeI IIIIeZ IIIIeZ 0111e		* ` ` `	eca id	Ice days index per time period
timsel_cSTAT_ Time range statistical values Syntax coperator>,nsets[,noffset[,nskip]] ifile of ile Syntax coperator>,nsets[,noffset[,nskip]] ifile of ile Syntax timsel_pctl, p.nsets[,noffset[,nskip]] ifile of ile Syntax timsel_pctl, p.nsets[,noffset[,nskip]] ifile of ile Syntax timsel_pctl, p.nsets[,noffset[,nskip]] ifile of ile Syntax smooth9 ifile of ile Syntax settroc Set range to constant others to constant2 Syntax settroc2,rmin,rmax,c ifile of ile Syntax settro		Vertical statistical values						
Syntax <pre> Syntax Syntax </pre>					v	^	1	eca_id ifile ofile
timselpct Time range percentiles Syntax timselpct, nskip ifile1 ifile2 fear-page Syntax timselpct, nskip ifile1 ifile2 fear-page Syntax timselpct, nskip ifile1 ifile2 fear-page Syntax constant constant Syntax constant constant Syntax constant const	Syntax	< operator > ifile ofile	Interpolation		smooth9	9 point smoothing	Syntax	
Syntax timselpctl.p.nsets[.noffset[.nskip]] ifile1 ifile2 Func STAT > Running statistical values Syntax coperator >,nts ifile ofile Syntax coperator >,nts ifile ofile Syntax runpctl Running percentiles Syntax runpctl.p.nts ifile1 ofile Syntax coperator > ifile ofile Syntax coper	Syntax timsel <stat></stat>	<pre>< operator > ifile ofile </pre> Time range statistical values			smooth9	9 point smoothing	Syntax eca_r10mm	Heavy precipitation days index per time period
run< STAT > Running statistical values Syntax coperator > grid fille of file Syntax const. cons	Syntax timsel <stat></stat>	<pre></pre> <pre> <pre></pre></pre>	remapbil	Bilinear interpolation	smooth9 Syntax	9 point smoothing smooth9 ifile ofile	Syntax eca_r10mm Syntax	Heavy precipitation days index per time period eca_r10mm ifile ofile
Syntax Syn	Syntax timsel <stat> Syntax timselpctl</stat>	<pre></pre> <pre>< operator > ifile ofile </pre> <pre>Time range statistical values < operator > ,nsets[,noffset[,nskip]] ifile ofile </pre> <pre>Time range percentiles</pre>	remapbil remapbic	Bilinear interpolation Bicubic interpolation	smooth9 Syntax	9 point smoothing smooth9 ifile ofile Set range to constant	Syntax eca_r10mm Syntax eca_r20mm	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period
Syntax Coperator >, nts ifile ofile Funpctl Running percentiles Generate bicubic interpolation weights Syntax runpctl, p, nts ifile ofile Funpctl Running percentiles Generate bicubic interpolation weights Syntax runpctl, p, nts ifile ofile Fine Syntax	Syntax timsel <stat> Syntax timselpctl</stat>	<pre></pre> <pre>< operator > ifile ofile </pre> <pre>Time range statistical values < operator > ,nsets[,noffset[,nskip]] ifile ofile </pre> <pre>Time range percentiles</pre>	remapbil remapbic	Bilinear interpolation Bicubic interpolation Conservative remapping	smooth9 Syntax setrtoc Syntax	9 point smoothing smooth9 ifile ofile Set range to constant setrtoc,rmin,rmax,c ifile ofile	Syntax eca_r10mm Syntax eca_r20mm	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period
runpctl Running percentiles Syntax runpctl, p,nts ifile1 ofile Generate binnear interpolation weights Syntax runpctl, p,nts ifile1 ofile Generate binnear interpolation weights Generate binnear interpolation weights Generate binnear interpolation weights Syntax runpctl, p,nts ifile1 ofile Const Create a constant field Syntax const, const, crid ofile Syntax const, const, crid ofile Syntax const, const, crid ofile Frandom Create a field with random values Syntax random, grid ofile Syntax runpctl, p ifile1 ifile2 ofile Syntax const, const, crid ofile Frandom Create a field with random values Syntax random, grid ofile Syntax random, grid ofile Frandom Create a field with random values Syntax random, grid ofile Frandom Syntax random, grid ofile Syntax random, grid ofile Frandom Syntax random values Syntax random, grid ofile Frandom Syntax random, grid ofile Frandom Syntax random values Syntax random, grid ofile Frandom Syntax random, grid ofile Fran	Syntax timsel <stat> Syntax timselpctl Syntax</stat>	<pre></pre> <pre></pre> <pre>Time range statistical values <pre><operator>,nsets[,noffset[,nskip]] ifile ofile </operator></pre> <pre>Time range percentiles timselpctl,p,nsets[,noffset[,nskip]] ifile1 ifile2</pre></pre>	remapbil remapbic iffquapeque remapdis	Bilinear interpolation Bicubic interpolation Conservative remapping Distance-weighted averaging	smooth9 Syntax setrtoc Syntax setrtoc2	9 point smoothing smooth9 ifile ofile Set range to constant setrtoc,rmin,rmax,c ifile ofile Set range to constant others to constant2	Syntax eca_r10mm Syntax eca_r20mm Syntax	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period eca_r20mm ifile ofile
Syntax runpctl, p.nts ifile1 ofile genble Generate bicubic interpolation weights gencon Generate conservative interpolation weights gendis Generate distance-weighted averaging weights Syntax < operator > ifile ofile Syntax impctl, pifile1 ifile2 ifile3 ofile Const Create a constant field	Syntax timsel <stat> Syntax timselpctl Syntax run<stat></stat></stat>	<pre></pre> <pre></pre> <pre> Time range statistical values <pre><operator>,nsets[,noffset[,nskip]] ifile ofile Time range percentiles timselpctl,p,nsets[,noffset[,nskip]] ifile1 ifile2 Running statistical values</operator></pre></pre>	remapbil remapbic remapdis remapdis Syntax	Bilinear interpolation Bicubic interpolation Conservative remapping Distance-weighted averaging <pre>coperator>,grid ifile ofile</pre>	smooth9 Syntax setrtoc Syntax setrtoc2 Syntax	9 point smoothing smooth9 ifile ofile Set range to constant setrtoc,rmin,rmax,c ifile ofile Set range to constant others to constant2 setrtoc2,rmin,rmax,c,c2 ifile ofile	Syntax eca_r10mm Syntax eca_r20mm Syntax eca_r75p	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period eca_r20mm ifile ofile Moderate wet days wrt 75th percentile of reference [1]
tim <stat> Statistical values over all time steps Syntax <pre>operator> ifile ofile</pre> Syntax <pre>Syntax <pre>coperator> ifile ofile</pre> Syntax <pre>syntax <pre>coperator> ifile ofile</pre> Syntax timpctl, pifiled ifile2 ifile3 ofile Interpolate interpolation Syntax <pre>syntax <pre>synt</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></stat>	Syntax timsel <stat> Syntax timselpctl Syntax run<stat> Syntax</stat></stat>	<pre></pre> <pre></pre> <pre> Time range statistical values <pre><operator>,nsets[,noffset[,nskip]] ifile ofile Time range percentiles timselpctl,p,nsets[,noffset[,nskip]] ifile1 ifile2 Running statistical values <operator>,nts ifile ofile</operator></operator></pre></pre>	remapbil remapbic iffquspeque remapdis Syntax genbil	Bilinear interpolation Bicubic interpolation Conservative remapping Distance-weighted averaging <operator>,grid ifile ofile Generate bilinear interpolation weights</operator>	smooth9 Syntax setrtoc Syntax setrtoc2 Syntax timsort	9 point smoothing smooth9 ifile ofile Set range to constant setrtoc,rmin,rmax,c ifile ofile Set range to constant others to constant2 setrtoc2,rmin,rmax,c,c2 ifile ofile Sort over the time	Syntax eca_r10mm Syntax eca_r20mm Syntax eca_r75p Syntax	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period eca_r20mm ifile ofile Moderate wet days wrt 75th percentile of reference peca_r75p ifile1 ifile2 ofile
Syntax coperator > ifile ofile Syntax coperator > ifile ofi	Syntax timsel< STAT > Syntax timselpctl Syntax run< STAT > Syntax runetl	<pre></pre> <pre></pre> <pre> Time range statistical values <pre><pre></pre></pre></pre>	remapbil remapbic remapbic remapdis remapdis Syntax genbil genbic	Bilinear interpolation Bicubic interpolation Conservative remapping Distance-weighted averaging <pre><operator>, grid ifile ofile</operator></pre> Generate bilinear interpolation weights Generate bicubic interpolation weights	smooth9 Syntax setrtoc Syntax setrtoc2 Syntax timsort Syntax	9 point smoothing smooth9 ifile ofile Set range to constant setrtoc,rmin,rmax,c ifile ofile Set range to constant others to constant2 setrtoc2,rmin,rmax,c,c2 ifile ofile Sort over the time timsort ifile ofile	Syntax eca_r10mm Syntax eca_r20mm Syntax eca_r75p Syntax eca_r75ptot	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period eca_r20mm ifile ofile Moderate wet days wrt 75th percentile of reference reca_r75p ifile1 ifile2 ofile Precipitation percent due to R75p days
timpctl Time percentiles Syntax timpctl, p if ile1 if ile2 if ile3 of ile Syntax timpctl, p if ile1 if ile2 if ile3 of ile	Syntax timsel< STAT > Syntax timselpctl Syntax run< STAT > Syntax runetl	<pre></pre> <pre></pre> <pre> Time range statistical values <pre><pre></pre></pre></pre>	remapbil remapbic iffensateme remapdis Syntax genbil genbic gencon	Bilinear interpolation Bicubic interpolation Conservative remapping Distance-weighted averaging < operator>, grid ifile ofile Generate bilinear interpolation weights Generate conservative interpolation weights	smooth9 Syntax setrtoc Syntax setrtoc2 Syntax timsort Syntax const	9 point smoothing smooth9 ifile ofile Set range to constant setrtoc,rmin,rmax,c ifile ofile Set range to constant others to constant2 setrtoc2,rmin,rmax,c,c2 ifile ofile Sort over the time timsort ifile ofile Create a constant field	Syntax eca_r10mm Syntax eca_r20mm Syntax eca_r75p Syntax eca_r75ptot	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period eca_r20mm ifile ofile Moderate wet days wrt 75th percentile of reference reca_r75p ifile1 ifile2 ofile Precipitation percent due to R75p days
timpctl Time percentiles Syntax timpctl, pifile1 ifile2 ifile3 ofile Syntax timpctl, pifile1 ifile2 ifile3 ofile Syntax remap,grid,weights ifile ofile Syntax concrator > ifile ofile Synt	$\begin{array}{c} \text{Syntax} \\ \hline \textbf{timsel} < STAT > \\ \hline \text{Syntax} \\ \hline \textbf{timselpctl} \\ \hline \text{Syntax} \\ \hline \textbf{run} < STAT > \\ \hline \text{Syntax} \\ \hline \textbf{runpctl} \\ \hline \text{Syntax} \\ \hline \textbf{timselpctl} \\ \hline \textbf{Syntax} \\ \hline \\ \hline \textbf{timselpctl} \\ \hline \textbf{Syntax} \\ \hline \\ \hline \textbf{tim} < STAT > \\ \hline \\ \hline \textbf{tim} < STAT > \\ \hline \\ \hline \end{array}$	<pre></pre> <pre></pre> <pre> Time range statistical values <pre><pre><pre>coperator >, nsets[,noffset[,nskip]] ifile ofile </pre> <pre> Time range percentiles timselpctl,p,nsets[,noffset[,nskip]] ifile1 ifile2 </pre> <pre> Running statistical values <pre>coperator >, nts ifile ofile</pre> <pre> Running percentiles runpctl,p,nts ifile1 ofile</pre> <pre> Statistical values over all time steps</pre></pre></pre></pre></pre>	remapbil remapbic remapbic remapdis Syntax genbil genbic gencon gendis	Bilinear interpolation Bicubic interpolation Conservative remapping Distance-weighted averaging <operator>,grid ifile ofile Generate bilinear interpolation weights Generate bicubic interpolation weights Generate conservative interpolation weights Generate distance-weighted averaging weights</operator>	smooth9 Syntax setrtoc Syntax setrtoc2 Syntax timsort Syntax const Syntax	9 point smoothing smooth9 ifile ofile Set range to constant setrtoc,rmin,rmax,c ifile ofile Set range to constant others to constant2 setrtoc2,rmin,rmax,c,c2 ifile ofile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile	Syntax eca_r10mm Syntax eca_r20mm Syntax eca_r75p Syntax eca_r75ptot Syntax eca_r75ptot	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period eca_r20mm ifile ofile Moderate wet days wrt 75th percentile of reference [eca_r75p ifile1 ifile2 ofile Precipitation percent due to R75p days eca_r75ptot ifile1 ifile2 ofile Wet days wrt 90th percentile of reference period
Syntax timpctl,p ifile1 ifile2 ifile3 ofile Syntax remap,grid,weights ifile ofile Syntax remap,grid,weights ifile ofile Syntax rotuvb,u,v, ifile ofile Syntax careptor > interpolate intgridbil Syntax careptor > ifile ofile Syntax rotuvb,u,v, ifile ofile Syntax rotuvb,u,v, ifile ofile mastrfu Mass stream function Syntax eca_r90ptot ifile1 ifile2 ofile mastrfu Mass stream function Syntax eca_r95p Very wet days wrt 95th percentile of reference percent of the perce	$\begin{array}{c} \text{Syntax} \\ \hline \textbf{timsel} < STAT > \\ \hline \text{Syntax} \\ \hline \textbf{timselpctl} \\ \hline \text{Syntax} \\ \hline \textbf{run} < STAT > \\ \hline \text{Syntax} \\ \hline \textbf{runpctl} \\ \hline \text{Syntax} \\ \hline \textbf{timselpctl} \\ \hline \textbf{Syntax} \\ \hline \\ \hline \textbf{timselpctl} \\ \hline \textbf{Syntax} \\ \hline \\ \hline \textbf{tim} < STAT > \\ \hline \\ \hline \textbf{tim} < STAT > \\ \hline \\ \hline \end{array}$	<pre></pre> <pre></pre> <pre> Time range statistical values <pre><pre><pre>coperator >, nsets[,noffset[,nskip]] ifile ofile </pre> <pre> Time range percentiles timselpctl,p,nsets[,noffset[,nskip]] ifile1 ifile2 </pre> <pre> Running statistical values <pre>coperator >, nts ifile ofile</pre> <pre> Running percentiles runpctl,p,nts ifile1 ofile</pre> <pre> Statistical values over all time steps</pre></pre></pre></pre></pre>	remapbil remapbic remapbic remapdis Syntax genbil genbic gencon gendis	Bilinear interpolation Bicubic interpolation Conservative remapping Distance-weighted averaging <operator>,grid ifile ofile Generate bilinear interpolation weights Generate bicubic interpolation weights Generate conservative interpolation weights Generate distance-weighted averaging weights <operator>,grid ifile ofile</operator></operator>	smooth9 Syntax setrtoc Syntax setrtoc2 Syntax timsort Syntax const Syntax	9 point smoothing smooth9 ifile ofile Set range to constant setrtoc,rmin,rmax,c ifile ofile Set range to constant others to constant2 setrtoc2,rmin,rmax,c,c2 ifile ofile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile Create a field with random values	Syntax eca_r10mm Syntax eca_r20mm Syntax eca_r75p Syntax eca_r75ptot Syntax eca_r75ptot	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period eca_r20mm ifile ofile Moderate wet days wrt 75th percentile of reference reca_r75p ifile1 ifile2 ofile Precipitation percent due to R75p days eca_r75ptot ifile1 ifile2 ofile Wet days wrt 90th percentile of reference period
hour $\langle STAT \rangle$ Hourly statistical values interpolate intgridbil PINGO grid interpolation Syntax $\langle sinterpolation \rangle$ interpolation $\langle sinterpolation \rangle$ interpol	$\begin{array}{c} {\rm Syntax} \\ {\rm timsel} < STAT > \\ {\rm Syntax} \\ \\ {\rm timselpctl} \\ {\rm Syntax} \\ \\ {\rm run} < STAT > \\ {\rm Syntax} \\ \\ {\rm runpctl} \\ {\rm Syntax} \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ {\rm Syntax} \\ \\ \\ {\rm tim} < STAT > \\ $	<pre></pre> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	remapbil remapbic remapbic remapdis Syntax genbil genbic gencon gendis Syntax	Bilinear interpolation Bicubic interpolation Conservative remapping Distance-weighted averaging <operator>,grid ifile ofile Generate bilinear interpolation weights Generate bicubic interpolation weights Generate conservative interpolation weights Generate distance-weighted averaging weights <operator>,grid ifile ofile SCRIP grid remapping</operator></operator>	smooth9 Syntax setrtoc Syntax setrtoc2 Syntax timsort Syntax const Syntax random Syntax	9 point smoothing smooth9 ifile ofile Set range to constant setrtoc,rmin,rmax,c ifile ofile Set range to constant others to constant2 setrtoc2,rmin,rmax,c,c2 ifile ofile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile Create a field with random values random,grid ofile	Syntax eca_r10mm Syntax eca_r20mm Syntax eca_r75p Syntax eca_r75ptot Syntax eca_r90p Syntax	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period eca_r20mm ifile ofile Moderate wet days wrt 75th percentile of reference reca_r75p ifile1 ifile2 ofile Precipitation percent due to R75p days eca_r75ptot ifile1 ifile2 ofile Wet days wrt 90th percentile of reference period eca_r90p ifile1 ifile2 ofile
Syntax concrutory iffile offile intgridbil Bilinear grid interpolation mastrfu Mass stream function mastrfu Mass stream function Syntax concrutory confidence con	Syntax timsel< STAT > Syntax timselpctl Syntax run< STAT > Syntax runpctl Syntax tim< STAT > Syntax tim< STAT > Syntax	<pre><pre></pre> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	remapbil remapbic remapbic remapdis Syntax genbil genbic gencon gendis Syntax	Bilinear interpolation Bicubic interpolation Conservative remapping Distance-weighted averaging <operator>,grid ifile ofile Generate bilinear interpolation weights Generate bicubic interpolation weights Generate conservative interpolation weights Generate distance-weighted averaging weights <operator>,grid ifile ofile SCRIP grid remapping</operator></operator>	smooth9 Syntax setrtoc Syntax setrtoc2 Syntax timsort Syntax const Syntax random Syntax rotuvb	9 point smoothing smooth9 ifile ofile Set range to constant setrtoc,rmin,rmax,c ifile ofile Set range to constant others to constant2 setrtoc2,rmin,rmax,c,c2 ifile ofile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile Create a field with random values random,grid ofile Backward rotation	Syntax eca_r10mm Syntax eca_r20mm Syntax eca_r75p Syntax eca_r75ptot Syntax eca_r90p Syntax	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period eca_r20mm ifile ofile Moderate wet days wrt 75th percentile of reference eca_r75p ifile1 ifile2 ofile Precipitation percent due to R75p days eca_r75ptot ifile1 ifile2 ofile Wet days wrt 90th percentile of reference period eca_r90p ifile1 ifile2 ofile Precipitation percent due to R90p days
	$\begin{array}{c} \text{Syntax} \\ \textbf{timsel} < STAT > \\ \text{Syntax} \\ \textbf{timselpctl} \\ \text{Syntax} \\ \textbf{run} < STAT > \\ \text{Syntax} \\ \textbf{runpctl} \\ \text{Syntax} \\ \textbf{tim} < STAT > \\ \text{Syntax} \\ \textbf{tim} < STAT > \\ \text{Syntax} \\ \textbf{tim} < STAT > \\ \text{Syntax} \\ \textbf{timpctl} \\ \text{Syntax} \\ \textbf{timpctl} \\ \text{Syntax} \\ \end{array}$	<pre><pre>< operator > ifile ofile Time range statistical values < operator > ,nsets[,noffset[,nskip]] ifile ofile Time range percentiles timselpctl,p,nsets[,noffset[,nskip]] ifile1 ifile2 Running statistical values < operator > ,nts ifile ofile Running percentiles runpctl,p,nts ifile1 ofile Statistical values over all time steps < operator > ifile ofile Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile</pre></pre>	remapbil remapbic remapbic remapdis Syntax genbil genbic gencon gendis Syntax remap	Bilinear interpolation Bicubic interpolation Conservative remapping Distance-weighted averaging <operator>,grid ifile ofile Generate bilinear interpolation weights Generate bicubic interpolation weights Generate conservative interpolation weights Generate distance-weighted averaging weights <operator>,grid ifile ofile SCRIP grid remapping remap,grid,weights ifile ofile</operator></operator>	smooth9 Syntax setrtoc Syntax setrtoc2 Syntax timsort Syntax const Syntax random Syntax rotuvb	9 point smoothing smooth9 ifile ofile Set range to constant setrtoc,rmin,rmax,c ifile ofile Set range to constant others to constant2 setrtoc2,rmin,rmax,c,c2 ifile ofile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile Create a field with random values random,grid ofile Backward rotation	eca_r10mm Syntax eca_r20mm Syntax eca_r75p Syntax eca_r75ptot Syntax eca_r90p Syntax eca_r90ptot Syntax	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period eca_r20mm ifile ofile Moderate wet days wrt 75th percentile of reference period eca_r75p ifile1 ifile2 ofile Precipitation percent due to R75p days eca_r75ptot ifile1 ifile2 ofile Wet days wrt 90th percentile of reference period eca_r90p ifile1 ifile2 ofile Precipitation percent due to R90p days eca_r90ptot ifile1 ifile2 ofile
	$\begin{array}{c} \text{Syntax} \\ \textbf{timsel} < STAT > \\ \text{Syntax} \\ \textbf{timselpctl} \\ \text{Syntax} \\ \textbf{run} < STAT > \\ \text{Syntax} \\ \textbf{runpctl} \\ \text{Syntax} \\ \textbf{tim} < STAT > \\ \text{Syntax} \\ \textbf{tim} < STAT > \\ \text{Syntax} \\ \textbf{timpctl} \\ \text{Syntax} \\ \textbf{timpctl} \\ \text{Syntax} \\ \textbf{hour} < STAT > \\ \textbf{Syntax} \\ \\ \textbf{hour} < STAT > \\ \textbf{Syntax} \\ \\ \textbf{Syntax} \\ \\ \textbf{Syntax} \\ \\ \textbf{Syntax} \\ \textbf{Syntax} \\ \\ \textbf{Syntax} \\ \textbf$	<pre></pre> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	remapbil remapbic remapbic remapdis Syntax genbil genbic gencon gendis Syntax remap Syntax interpolate	Bilinear interpolation Bicubic interpolation Conservative remapping Distance-weighted averaging <pre><operator> ,grid ifile ofile</operator></pre> Generate bilinear interpolation weights Generate bicubic interpolation weights Generate conservative interpolation weights Generate distance-weighted averaging weights <pre><operator> ,grid ifile ofile</operator></pre> SCRIP grid remapping remap,grid,weights ifile ofile PINGO grid interpolation	smooth9 Syntax setrtoc Syntax setrtoc2 Syntax timsort Syntax const Syntax random Syntax rotuvb Syntax	9 point smoothing smooth9 ifile ofile Set range to constant setrtoc,rmin,rmax,c ifile ofile Set range to constant others to constant2 setrtoc2,rmin,rmax,c,c2 ifile ofile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile Create a field with random values random,grid ofile Backward rotation rotuvb,u,v, ifile ofile	Syntax eca_r10mm Syntax eca_r20mm Syntax eca_r75p Syntax eca_r75ptot Syntax eca_r90p Syntax eca_r90ptot Syntax eca_r95p	Heavy precipitation days index per time period eca_r10mm ifile ofile Very heavy precipitation days index per time period eca_r20mm ifile ofile Moderate wet days wrt 75th percentile of reference period eca_r75p ifile1 ifile2 ofile Precipitation percent due to R75p days eca_r75ptot ifile1 ifile2 ofile Wet days wrt 90th percentile of reference period eca_r90p ifile1 ifile2 ofile Precipitation percent due to R90p days eca_r90ptot ifile1 ifile2 ofile Very wet days wrt 95th percentile of reference period

eca_r95ptot	Precipitation percent due to R95p days
Syntax	eca_r95ptot ifile1 ifile2 ofile
eca_r99p	Extremely wet days wrt 99th percentile of reference period
Syntax	eca_r99p ifile1 ifile2 ofile
eca_r99ptot	Precipitation percent due to R99p days
Syntax	eca_r99ptot ifile1 ifile2 ofile
-	
eca_rr1	Wet days index per time period
Syntax	eca_rr1 ifile ofile
eca_rx1day	Highest one day precipitation amount per time period
Syntax	eca_rx1day[,mode] ifile ofile
eca_rx5day	Highest five-day precipitation amount per time period
Syntax	eca_rx5day/,x/ ifile ofile
eca sdii	Simple daily intensity index per time period
	eca_sdii ifile ofile
Syntax	eca_sdif fifte office
eca_su	Summer days index per time period
Syntax	$\mathbf{eca_su}[,T]$ ifile ofile
eca_tg10p	Cold days percent wrt 10th percentile of reference period
Syntax	eca_tg10p ifile1 ifile2 ofile
eca_tg90p	Warm days percent wrt 90th percentile of reference period
Syntax	eca_tg90p ifile1 ifile2 ofile
eca_tn10p	Cold nights percent wrt 10th percentile of reference period
Syntax	eca_tn10p ifile1 ifile2 ofile
eca_tn90p	Warm nights percent wrt 90th percentile of reference period
Syntax	eca_tn90p ifile1 ifile2 ofile
eca_tr	Tropical nights index per time period
Syntax	eca_tr $[T]$ ifile ofile
eca_tx10p	Very cold days percent wrt 10th percentile of reference period
Syntax	eca_tx10p ifile1 ifile2 ofile
eca_tx90p	Very warm days percent wrt 90th percentile of reference period
Syntax	eca_tx90p ifile1 ifile2 ofile