# **CDO** Reference Card

Climate Data Operators Version 1.0.8 June 2007

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### Syntax

cdo	Options	Operator

### Options

•	
-a	Convert from a relative to an absolute time axis
<b>-b</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	
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 name
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	<pre><operator> ifile</operator></pre>
Symax	\-r
showformat	Show file format
showformat	Show file format
showformat showcode	Show file format Show code numbers
showformat showcode showname	Show file format Show code numbers Show variable names
showformat showcode showname showstdname	Show file format Show code numbers Show variable names Show standard names
showformat showcode showname showstdname showlevel	Show file format Show code numbers Show variable names Show standard names Show levels
showformat showcode showname showstdname showlevel showltype	Show file format Show code numbers Show variable names Show standard names Show levels Show GRIB level types
showformat showcode showname showstdname showlevel showltype showyear	Show file format Show code numbers Show variable names Show standard names Show levels Show GRIB level types Show years
showformat showcode showname showstdname showlevel showltype showyear showmon	Show file format Show code numbers Show variable names Show standard names Show levels Show GRIB level types Show years Show months
showformat showcode showname showstdname showlevel showlype showyear showmon showdate	Show file format Show code numbers Show variable names Show standard names Show levels Show GRIB level types Show years Show months Show dates
showformat showcode showname showstdname showlevel showlype showyear showmon showdate showtime	Show file format Show code numbers Show variable names Show standard names Show levels Show GRIB level types Show years Show months Show dates Show time steps
showformat showcode showname showstdname showlevel showlype showyear showmon showdate showtime	Show file format Show code numbers Show variable names Show standard names Show levels Show GRIB level types Show years Show wars Show months Show dates Show time steps < operator > ifile
showformat showcode showname showstdname showlevel showlype showyear showmon showdate showtime Syntax	Show file format Show code numbers Show variable names Show standard names Show levels Show GRIB level types Show years Show months Show dates Show time steps < operator > ifile Parameter description

Syntax < operator > ifile

### File operations

•	
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	< operator > ifiles ofile
splitcode	Split code numbers
splitname	Split variable names
splitlevel	Split levels
splitgrid	Split grids
splitzaxis	Split zaxis
splitrec	Split records
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</operator></pre>

### Selection

	selcode	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
	Syntax	selgrid, grids ifile ofile
	selgridname	Select grids by name
٦	Syntax	selgridname, gridnames ifile ofile
9	selzaxis	Select zaxes
	Syntax	selzaxis,zaxes ifile ofile
Ħ	selzaxisname	Select zaxes by name
	Syntax	selzaxisname,zaxisnames ifile ofile
	selltype	Select GRIB level types
ᆜ	Syntax	selltype, ltypes ifile ofile
	seltabnum	Select parameter table numbers
	Syntax	seltabnum,tabnums ifile ofile
	selrec	Select records
	Syntax	selrec, records ifile ofile
	seltimestep	Select time steps
	Syntax	seltimestep, timesteps ifile ofile
	seltime	Select times
	Syntax	seltime, times ifile ofile
	selhour	Select hours
	Syntax	selhour, hours ifile ofile
	selday	Select days
	Syntax	selday,days ifile ofile
	selmon	Select months
	Syntax	selmon.months ifile ofile
	selyear	Select years
	Syntax	selyear, years ifile ofile
	selseas	Select seasons
	Syntax	selseas,seasons ifile ofile
٦	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	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
2,722001		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
ifthen	If then	chlevelv	Change level of one variable
ifnotthen	If not then	Syntax	chlevelv,var,oldlev,newlev ifile ofile
Syntax	<pre>&lt; operator &gt; ifile1 ifile2 ofile</pre>	setgrid	Set grid
V		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		Set global attribute
		setgatt   Syntax	setgatt, attname, attstring if ile of ile
		setgatts	Set global attributes
		Syntax	setgatts,attfile ifile ofile
Comparison		U	<b>3</b> ,
Comparison		invertlat	Invert latitude
eq	Equal	invertion	Invert longitude
ne	Not equal	invertlatdes	Invert latitude description
le	Less equal	invertiondes	Invert longitude description
lt	Less than	invertlatdata	Invert latitude data
ge	Greater equal	invertiondata	Invert longitude data
$_{ m gt}$	Greater than	Syntax	<pre><operator> ifile ofile</operator></pre>
Syntax	$<\!operator\!>$ ifile1 ifile2 ofile	smooth9	9 point smoothing
eqc	Equal constant	Syntax	smooth9 ifile ofile
nec	Not equal constant	maskregion	Mask regions
lec	Less equal constant	Syntax	maskregion, regions ifile ofile
ltc	Less then constant	V	<u> </u>
gec	Greater equal constant	masklonlatbox	
gtc	Greater then constant	Syntax	masklonlatbox,lon1,lon2,lat1,lat2 ifile ofile
Syntax	< operator >, c ifile ofile	maskindexbox	Mask an index box
		Syntax	maskindexbox,idx1,idx2,idy1,idy2 ifile ofile
		setclonlatbox	Set a longitude/latitude box to constant
		Syntax	${\bf setclonlatbox}, c, lon1, lon2, lat1, lat2 \ {\tt ifile} \ {\tt ofile}$
		setcindexbox	Set an index box to constant
Modification		Syntax	setcindexbox,c,idx1,idx2,idy1,idy2 ifile ofile
Modification			
setpartab	Set parameter table	1	, , , , , , ,
	Set parameter table setpartab,table ifile ofile Set code number	enlarge Syntax	Enlarge fields enlarge.grid ifile ofile

setpartab     Set parameter table       Syntax     setpartab, table ifile ofile       setcode     Set code number       syntax     setcode, code ifile ofile       setname     Set variable name       Syntax     setlaneme, name ifile ofile       setlevel     Set level       Syntax     setlevel, level ifile ofile       setltype     Set GRIB level type       Syntax     setlype, ltype ifile ofile       setdate     Set date       Syntax     setdate, date ifile ofile       settime     Set time       setday     Set day       Syntax     setday, day ifile ofile       setmon     Set month       setyear     Set year	
setcode         Set code number           Syntax         setcode,code ifile ofile           setname         Set variable name           Syntax         setname,name ifile ofile           setlevel         Set level           Syntax         setlevel,level ifile ofile           setltype         Set GRIB level type           Syntax         setltype,ltype ifile ofile           setdate         Set date           Syntax         setdate,date ifile ofile           settime         Set time           Syntax         settime,time ifile ofile           setday         Set day           Syntax         setday,day ifile ofile           setmon         Set month           Syntax         setmon,month ifile ofile           setyear         Set year	
Syntax setcode,code ifile ofile  setname Syntax setname,name ifile ofile  setlevel Set level Syntax setlevel,level ifile ofile  setltype Set GRIB level type Syntax setltype,ltype ifile ofile  setdate Syntax setdate,date ifile ofile  settime Set time Syntax settime,time ifile ofile  setday Set day Syntax setday,day ifile ofile  setmon Set month Syntax setmon,month ifile ofile  setyear Set year	
Setname   Set variable name	
Syntax setname,name ifile ofile  setlevel Set level Syntax setlevel,level ifile ofile  settlype Set GRIB level type Syntax settlype,ltype ifile ofile  setdate Set date Syntax setdate,date ifile ofile  settime Set time Syntax settime,time ifile ofile  setday Set day Syntax setday,day ifile ofile  setmon Set month Syntax setton,month ifile ofile  setyear Set year	
Setlevel   Set level     Syntax   Setlevel, level ifile ofile     Setltype   Set GRIB level type     Syntax   Setltype, ltype ifile ofile     Setdate   Set date     Syntax   Setlate, date ifile ofile     Settime   Set time     Syntax   Settime, time ifile ofile     Setday   Set day     Syntax   Setday, day ifile ofile     Setmon   Set month     Syntax   Setmon, month ifile ofile     Setyear   Set year	
Syntax setlevel,level ifile ofile setltype Set GRIB level type Syntax setlype,ltype ifile ofile setdate Set date Syntax setdate,date ifile ofile settime Set time Syntax settly,time ifile ofile setday Set day Syntax setday,day ifile ofile setmon Set month Syntax setmon,month ifile ofile setyear Set year	
setltype         Set GRIB level type           Syntax         setltype,ltype ifile ofile           setdate         Set date           Syntax         setdate,date ifile ofile           settime         Set time           syntax         settime,time ifile ofile           setday         Set day           syntax         setday,day ifile ofile           setmon         Set month           syntax         setmon,month ifile ofile           setyear         Set year	
Syntax setltype, ttype ifile ofile  setdate Syntax setdate, date ifile ofile  settime Syntax settime, time ifile ofile  setday Syntax setday, day ifile ofile  setmon Syntax setmon, month ifile ofile  setyear Set year	
setdate     Set date       Syntax     setdate,date ifile ofile       settime     Set time       Syntax     settime ifile ofile       setday     Set day       Syntax     setday,day ifile ofile       setmon     Set month       Syntax     setmon,month ifile ofile       setyear     Set year	
Syntax setdate,date ifile ofile  settime Syntax settime,time ifile ofile  setday Set day  Syntax setday,day ifile ofile  setmon Set month Syntax setmon,month ifile ofile  setyear Set year	
settime         Set time           Syntax         settime, time ifile ofile           setday         Set day           Syntax         setday, day ifile ofile           setmon         Set month           Syntax         setmon, month ifile ofile           setyear         Set year	
Syntax         settime, time ifile ofile           setday         Set day           Syntax         setday, day ifile ofile           setmon         Set month           Syntax         setmon, month ifile ofile           setyear         Set year	
setday         Set day           Syntax         setday,day ifile ofile           setmon         Set month           Syntax         setmon,month ifile ofile           setyear         Set year	
Syntax         setday,day ifile ofile           setmon         Set month           Syntax         setmon,month ifile ofile           setyear         Set year	
setmon     Set month       Syntax     setmon, month ifile ofile       setyear     Set year	
Syntax setmon,month ifile ofile setyear Set year	
setyear Set year	
Syntax setyear, year ifile ofile	
settunits Set time units	
Syntax settunits, units ifile ofile	
settaxis Set time axis	
Syntax settaxis, date, time[,inc] ifile ofile	
setreftime Set reference time	
Syntax setreftime, date, time ifile ofile	
setcalendar Set calendar	
Syntax setcalendar, calendar ifile ofile	
shifttime Shift time steps	
Syntax shifttime,sval ifile ofile	

### Arithmetic

setmissval

setctomiss

setmisstoc

setrtomiss

Syntax

expr		Evaluate expressions
	Syntax	expr,instr ifile ofile
exprf		Evaluate expressions from script file
	Syntax	exprf, filename ifile ofile

Set a new missing value setmissval, miss ifile ofile

Set constant to missing value Set missing value to constant

< operator >, c ifile ofile

Set range to missing value setrtomiss,rmin,rmax ifile ofile

abs int							
	Absolute value					ydrunmin	Multi-year daily running minimum
	Integer value	mermin	Meridional minimum	monmin	Monthly minimum	ydrunmax	Multi-year daily running maximum
nint	Nearest integer value		Meridional maximum		Monthly maximum	ydrunsum	Multi-year daily running sum
	Square	mermax		monmax		vdrunmean	Multi-year daily running mean
$\operatorname{\mathbf{sqr}}$	*	mersum	Meridional sum	monsum	Monthly sum		
sqrt	Square root	mermean	Meridional mean	monmean	Monthly mean	ydrunavg	Multi-year daily running average
exp	Exponential	meravg	Meridional average	monavg	Monthly average	ydrunvar	Multi-year daily running variance
ln	Natural logarithm	mervar	Meridional variance	monvar	Monthly variance	ydrunstd	Multi-year daily running standard deviation
log10	Base 10 logarithm		Meridional standard deviation		Monthly standard deviation	Syntax	<pre><operator>,nts ifile ofile</operator></pre>
sin	Sine	merstd		monstd	v		
		Syntax	< operator > ifile ofile	Syntax	< operator > ifile ofile	ydrunpctl	Multi-year daily running percentiles
cos	Cosine	merpctl	Meridional percentiles	monpctl	Monthly percentiles	Syntax	ydrunpctl,p,nts ifile1 ifile2 ifile3 ofile
tan	Tangent	Syntax	merpctl,p ifile ofile				J ··· ·· · · · · · · · · · · · · · · ·
asin	Arc sine			Syntax	$\mathbf{monpctl}, p$ ifile1 ifile2 ifile3 ofile		
acos	Arc cosine	vertmin	Vertical minimum	yearmin	Yearly minimum		
		vertmax	Vertical maximum	-		Regression	
atan	Arc tangent	vertsum	Vertical sum	yearmax	Yearly maximum	100810001011	
Syntax	< operator > ifile ofile	vertmean	Vertical mean	yearsum	Yearly sum	detrend	Detrend
addc	Add a constant			yearmean	Yearly mean	Syntax	detrend ifile ofile
		vertavg	Vertical average	yearavg	Yearly average		
subc	Subtract a constant	vertvar	Vertical variance	yearvar	Yearly variance	trend	Trend
mulc	Multiply with a constant	vertstd	Vertical standard deviation	·	v .	Syntax	trend ifile ofile1 ofile2
divc	Divide by a constant	Syntax	<pre><operator> ifile ofile</operator></pre>	yearstd	Yearly standard deviation		
Syntax	< operator >, c ifile ofile		*	Syntax	< operator > ifile ofile	subtrend	Subtract trend
		timselmin	Time range minimum	yearpctl	Yearly percentiles	Syntax	subtrend ifile1 ifile2 ifile3 ofile
add	Add two fields	timselmax	Time range maximum				
sub	Subtract two fields	timselsum	Time range sum	Syntax	yearpctl, p ifile1 ifile2 ifile3 ofile		
mul	Multiply two fields			seasmin	Seasonal minimum		
div	Divide two fields	timselmean	Time range mean			Interpolation	
		timselavg	Time range average	seasmax	Seasonal maximum	Polation	
min	Minimum of two fields	timselvar	Time range variance	seassum	Seasonal sum	remapbil	Bilinear interpolation
max	Maximum of two fields	timselstd	Time range standard deviation	seasmean	Seasonal mean	remapbic	Bicubic interpolation
atan2	Arc tangent of two fields	Syntax	<pre></pre> <pre>&lt; operator &gt; ,nsets[,noffset[,nskip]] ifile ofile</pre>	seasavg	Seasonal average	_	
Syntax		Бунцах	¬operator >,nsets[,nonset[,nskip]] fiffe office  o	_	Seasonal variance	remapcon	Conservative remapping
Syntax	(operator > illier illiez ollie	timselpctl	Time range percentiles	seasvar		remapdis	Distance-weighted averaging
ymonadd	Add multi-year monthly time average	Syntax	timselpctl,p,nsets[,noffset[,nskip]] ifile1 ifile2 i	seasstd	Seasonal standard deviation	Syntax	<pre><operator>,grid ifile ofile</operator></pre>
ymonsub	Subtract multi-year monthly time average	bynoax	timscipesi,p,nscis[,nonsci[,nskip]] iiiici iiiicz	Syntax	< operator > ifile ofile	1.1	0 12 12 14 14 14
vmonmul	Multiply multi-year monthly time average	runmin	Running minimum		Ctil	genbil	Generate bilinear interpolation weights
		runmax	Running maximum	seaspctl	Seasonal percentiles	genbic	Generate bicubic interpolation weights
ymondiv	Divide multi-year monthly time average		Running sum	Syntax	$\mathbf{seaspctl}, p$ ifile1 ifile2 ifile3 ofile	gencon	Generate conservative interpolation weights
Syntax	< operator > ifile1 ifile2 ofile	runsum		1 .	Mar. 12 · · ·	gendis	Generate distance-weighted averaging weights
muldpm	Multiply with days per month	runmean	Running mean	ydaymin	Multi-year daily minimum	Syntax	<pre>&lt; operator &gt; ,grid ifile ofile</pre>
		runavg	Running average	ydaymax	Multi-year daily maximum	Symax	<pre>coperator &gt;,grid fifte office</pre>
divdpm	Divide by days per month	runvar	Running variance	ydaysum	Multi-year daily sum	remap	SCRIP grid remapping
muldpy	Multiply with days per year	runstd	Running standard deviation	ydaymean	Multi-year daily mean	Syntax	remap,grid,weights ifile ofile
divdpy	Divide by days per year	Syntax	<pre><pre><pre>coperator&gt;,nts ifile ofile</pre></pre></pre>	ydayavg	Multi-year daily average	Dyneax	remap,grid, weights fiffe offic
		Syntax	< operator >,nts illie ollie		Multi-year daily variance	interpolate	PINGO grid interpolation
23 110421	(operator) 11110 01110	runpctl	Running percentiles	ydayvar		intgridbil	Bilinear grid interpolation
		Syntax	runpctl,p,nts ifile1 ofile	ydaystd	Multi-year daily standard deviation	Syntax	<pre>&lt; operator &gt;,grid ifile ofile</pre>
		bynoax	runpen,p,ms irrier orrie	Syntax	< operator > ifile ofile	Dyntax	<pre><pre>operator &gt;,grid fifte office</pre></pre>
Statistical val	lues		Time minimum				
		timmin	1 line minimum	rudorm ot l	Multi man daily nancontiles	remapeta	Remap model level
				ydaypctl	Multi-year daily percentiles		
ensmin	Ensemble minimum	timmax	Time maximum	ydaypctl Syntax	Multi-year daily percentiles ydaypctl,p ifile1 ifile2 ifile3 ofile	Syntax	remapeta,vct[,oro] ifile ofile
ensmin ensmax	Ensemble minimum Ensemble maximum	timmax timsum	Time maximum Time sum	Syntax	ydaypctl,p ifile1 ifile2 ifile3 ofile		
		timmax timsum timmean	Time maximum Time sum Time mean	Syntax	ydaypctl,p ifile1 ifile2 ifile3 ofile  Multi-year monthly minimum	Syntax	remapeta,vct[,oro] ifile ofile
ensmax enssum	Ensemble maximum Ensemble sum	timmax timsum timmean timavg	Time maximum Time sum Time mean Time average	ymonmin ymonmax	ydaypctl,p ifile1 ifile2 ifile3 ofile  Multi-year monthly minimum Multi-year monthly maximum	Syntax  ml2pl Syntax	remapeta,vct[,oro] ifile ofile  Model to pressure level interpolation ml2pl,plevels ifile ofile
ensmax enssum ensmean	Ensemble maximum Ensemble sum Ensemble mean	timmax timsum timmean timavg timvar	Time maximum Time sum Time mean Time average Time variance	ymonmin ymonmax ymonsum	ydaypctl,p ifile1 ifile2 ifile3 ofile  Multi-year monthly minimum Multi-year monthly maximum Multi-year monthly sum	Syntax ml2pl Syntax ml2hl	remapeta,vct[,oro] ifile ofile  Model to pressure level interpolation ml2pl,plevels ifile ofile  Model to height level interpolation
ensmax enssum ensmean ensavg	Ensemble maximum Ensemble sum Ensemble mean Ensemble average	timmax timsum timmean timavg	Time maximum Time sum Time mean Time average	ymonmin ymonmax	ydaypctl,p ifile1 ifile2 ifile3 ofile  Multi-year monthly minimum Multi-year monthly maximum	Syntax  ml2pl Syntax	remapeta,vct[,oro] ifile ofile  Model to pressure level interpolation ml2pl,plevels ifile ofile
ensmax enssum ensmean ensavg ensvar	Ensemble maximum Ensemble sum Ensemble mean Ensemble average Ensemble variance	timmax timsum timmean timavg timvar timstd	Time maximum Time sum Time mean Time average Time variance Time standard deviation	ymonmin ymonmax ymonsum ymonmean	ydaypctl,p ifile1 ifile2 ifile3 ofile  Multi-year monthly minimum Multi-year monthly maximum Multi-year monthly sum Multi-year monthly mean	Syntax ml2pl Syntax ml2hl	remapeta,vct[,oro] ifile ofile  Model to pressure level interpolation ml2pl,plevels ifile ofile  Model to height level interpolation ml2hl,hlevels ifile ofile
ensmax enssum ensmean ensavg	Ensemble maximum Ensemble sum Ensemble mean Ensemble average	timmax timsum timmean timavg timvar timstd	Time maximum Time sum Time mean Time average Time variance Time standard deviation < operator > ifile ofile	ymonmin ymonmax ymonsum ymonmean ymonavg	ydaypctl,p ifile1 ifile2 ifile3 ofile  Multi-year monthly minimum Multi-year monthly maximum Multi-year monthly sum Multi-year monthly mean Multi-year monthly average	Syntax  ml2pl Syntax  ml2hl Syntax  inttime	remapeta,vct[,oro] ifile ofile  Model to pressure level interpolation ml2pl,plevels ifile ofile  Model to height level interpolation ml2hl,hlevels ifile ofile  Time interpolation
ensmax enssum ensmean ensavg ensvar ensstd	Ensemble maximum Ensemble sum Ensemble mean Ensemble average Ensemble variance Ensemble standard deviation	timmax timsum timmean timavg timvar timstd	Time maximum Time sum Time mean Time average Time variance Time standard deviation	ymonmin ymonmax ymonsum ymonmean ymonavg ymonvar	ydaypctl,p ifile1 ifile2 ifile3 ofile  Multi-year monthly minimum Multi-year monthly maximum Multi-year monthly sum Multi-year monthly mean Multi-year monthly average Multi-year monthly variance	Syntax  ml2pl Syntax  ml2hl Syntax  inttime Syntax	remapeta,vct[,oro] ifile ofile  Model to pressure level interpolation ml2pl,plevels ifile ofile  Model to height level interpolation ml2hl,hlevels ifile ofile  Time interpolation inttime,date,time[,inc] ifile ofile
ensmax enssum ensmean ensavg ensvar ensstd	Ensemble maximum Ensemble sum Ensemble mean Ensemble average Ensemble variance Ensemble standard deviation <operator> ifiles ofile</operator>	timmax timsum timmean timavg timvar timstd	Time maximum Time sum Time mean Time average Time variance Time standard deviation < operator > ifile ofile	ymonmin ymonmax ymonsum ymonava ymonava ymonvar ymonstd	ydaypctl,p ifile1 ifile2 ifile3 ofile  Multi-year monthly minimum Multi-year monthly sum Multi-year monthly mean Multi-year monthly average Multi-year monthly variance Multi-year monthly standard deviation	Syntax ml2pl Syntax ml2hl Syntax inttime Syntax intntime	remapeta,vct[,oro] ifile ofile  Model to pressure level interpolation ml2pl,plevels ifile ofile  Model to height level interpolation ml2hl,hlevels ifile ofile  Time interpolation inttime,date,time[,inc] ifile ofile  Time interpolation
ensmax enssum ensmean ensavg ensvar ensstd Syntax	Ensemble maximum Ensemble sum Ensemble mean Ensemble average Ensemble variance Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles</operator>	timmax timsum timmean timavg timvar timstd Syntax  timpetl Syntax	Time maximum Time sum Time mean Time average Time variance Time standard deviation <operator> ifile ofile Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile</operator>	ymonmin ymonmax ymonsum ymonmean ymonavg ymonvar	ydaypctl,p ifile1 ifile2 ifile3 ofile  Multi-year monthly minimum Multi-year monthly maximum Multi-year monthly sum Multi-year monthly mean Multi-year monthly average Multi-year monthly variance	Syntax  ml2pl Syntax  ml2hl Syntax  inttime Syntax	remapeta,vct[,oro] ifile ofile  Model to pressure level interpolation ml2pl,plevels ifile ofile  Model to height level interpolation ml2hl,hlevels ifile ofile  Time interpolation inttime,date,time[,inc] ifile ofile
ensmax enssum ensmean ensavg ensvar ensstd Syntax	Ensemble maximum Ensemble sum Ensemble mean Ensemble variance Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile</operator>	timmax timsum timmean timavg timvar timstd Syntax	Time maximum Time sum Time mean Time average Time variance Time standard deviation < operator > ifile ofile Time percentiles	ymonmin ymonmax ymonsum ymonava ymonava ymonvar ymonstd Syntax	ydaypctl,p ifile1 ifile2 ifile3 ofile  Multi-year monthly minimum Multi-year monthly maximum Multi-year monthly sum Multi-year monthly mean Multi-year monthly average Multi-year monthly variance Multi-year monthly standard deviation <operator> ifile ofile</operator>	Syntax ml2pl Syntax ml2hl Syntax inttime Syntax intntime Syntax	remapeta,vct[,oro] ifile ofile  Model to pressure level interpolation ml2pl,plevels ifile ofile  Model to height level interpolation ml2hl,hlevels ifile ofile  Time interpolation inttime,date,time[,inc] ifile ofile  Time interpolation intnime,n ifile ofile
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ensmax enssum ensmean ensavg ensvar ensstd  Syntax  fldmin fldmax fldsum fldmean fldavg fldvar fldstd  Syntax  Syntax	Ensemble maximum Ensemble sum Ensemble mean Ensemble average Ensemble variance Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile  Field minimum Field maximum Field sum Field werage Field variance Field standard deviation <operator> ifile ofile  Field percentiles fldpctl,p ifile ofile</operator></operator>	timmax timsum timmean timavg timvar timstd Syntax  timpctl Syntax  hourmin hourmax hoursum houravg hourvar hourstd Syntax  hourpctl Syntax  daymin	Time maximum Time sum Time mean Time average Time variance Time standard deviation <operator> ifile ofile Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly maximum Hourly maximum Hourly sum Hourly variance Hourly variance Hourly standard deviation <operator> ifile ofile Hourly percentiles hourpctl,p ifile1 ifile2 ifile3 ofile Daily minimum</operator></operator>	Syntax  ymonmin ymonmax ymonsum ymonavg ymonvar ymonstd Syntax  ymonpetl Syntax  yseasmax yseasmax yseassum yseassum yseasavar yseasvar yseasstd Syntax	ydaypctl,p ifile1 ifile2 ifile3 ofile  Multi-year monthly minimum Multi-year monthly sum Multi-year monthly sum Multi-year monthly mean Multi-year monthly average Multi-year monthly variance Multi-year monthly standard deviation <operator> ifile ofile  Multi-year monthly percentiles ymonpctl,p ifile1 ifile2 ifile3 ofile  Multi-year seasonal minimum Multi-year seasonal maximum Multi-year seasonal mean Multi-year seasonal wean Multi-year seasonal verage Multi-year seasonal verage Multi-year seasonal standard deviation <operator> ifile ofile</operator></operator>	Syntax  ml2pl Syntax  ml2hl Syntax  inttime Syntax  intntime Syntax  intyear Syntax  Transformation  sp2gp sp2gpl sp2gpl gp2sp gp2spl Syntax	remapeta,vct[,oro] ifile ofile
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ensmax enssum ensmean ensavg ensvar ensstd Syntax  fldmin fldmax fldsum fldmean fldavg fldvar fldstd Syntax  fldpctl Syntax	Ensemble maximum Ensemble sum Ensemble mean Ensemble average Ensemble variance Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspetl,p ifiles ofile  Field minimum Field sum Field sum Field average Field variance Field standard deviation <operator> ifile ofile Field percentiles fldpetl,p ifile ofile  Zonal minimum</operator></operator>	timmax timsum timmean timavg timvar timstd Syntax  timpctl Syntax hourman hourman hourwar hourvar hourstd Syntax  hourpctl Syntax  daymin daymax daysum	Time maximum Time sum Time mean Time average Time variance Time standard deviation <operator> ifile ofile  Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile  Hourly minimum Hourly maximum Hourly mean Hourly average Hourly variance Hourly standard deviation <operator> ifile ofile  Hourly percentiles hourpctl,p ifile1 ifile2 ifile3 ofile  Daily minimum Daily maximum Daily maximum Daily maximum Daily maximum Daily sum</operator></operator>	Syntax  ymonmin ymonmax ymonsum ymonavg ymonvar ymonstd Syntax  ymonpetl Syntax  yseasmin yseasmax yseassum yseasavg yseasvar yseasstd Syntax  yseaspetl	Multi-year monthly minimum	Syntax  ml2pl Syntax  ml2hl Syntax  inttime Syntax  intntime Syntax  intyear Syntax  Transformatic sp2gp sp2gpl sp2spl sp2spl sp2sp sp2spl Syntax  sp2sp Syntax  sp2ut	remapeta,vct[,oro] ifile ofile
ensmax enssum ensmean ensavg ensvar ensstd Syntax  enspctl Syntax  fldmin fldmax fldsum fldmean fldavg fldvar fldstd Syntax  zonmin zonmax zonsum	Ensemble maximum Ensemble sum Ensemble mean Ensemble average Ensemble variance Ensemble standard deviation <operator>ifiles ofile Ensemble percentiles enspctl,p ifiles ofile  Field minimum Field maximum Field mean Field average Field variance Field variance Field standard deviation <operator> ifile ofile  Field percentiles fldpctl,p ifile ofile  Zonal minimum Zonal maximum Zonal sum</operator></operator>	timmax timsum timmean timavg timvar timstd Syntax  timpctl Syntax  hourmin hourmax hoursum hourwar hourvar hourstd Syntax  daymin daymax daysum daymean	Time maximum Time sum Time mean Time warrage Time variance Time standard deviation <operator> ifile ofile  Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile  Hourly minimum Hourly maximum Hourly average Hourly variance Hourly standard deviation <operator> ifile ofile  Hourly percentiles hourpctl,p ifile1 ifile2 ifile3 ofile  Daily minimum Daily sum Daily maximum Daily maximum Daily maximum Daily maximum Daily maximum Daily mean</operator></operator>	Syntax  ymonmin ymonmax ymonsum ymonavg ymonvar ymonstd Syntax  ymonpetl Syntax  yseasmin yseasmax yseassum yseasavg yseasvar yseasstd Syntax  yseaspetl	Multi-year monthly minimum	Syntax  ml2pl Syntax  ml2hl Syntax  inttime Syntax  intrume Syntax  intyear Syntax  Transformatic sp2gp sp2gpl gp2sp gp2spl gp2sp gp2spl Syntax  sp2sp Syntax	remapeta,vct[,oro] ifile ofile
ensmax enssum ensmean ensavg ensvar ensstd Syntax  enspetl Syntax  fldmin fldmax fldsum fldmean fldavg fldvar fldstd Syntax  zonmin zonmax zonsum zonmean	Ensemble maximum Ensemble sum Ensemble mean Ensemble deverage Ensemble variance Ensemble standard deviation <operator>ifiles ofile Ensemble percentiles enspctl,p ifiles ofile  Field minimum Field maximum Field sum Field werage Field variance Field variance Field standard deviation <operator>ifile ofile  Field percentiles fldpctl,p ifile ofile  Zonal minimum Zonal maximum Zonal sum Zonal mean</operator></operator>	timmax timsum timmean timavg timvar timstd Syntax  timpctl Syntax  hourmin hourmax hoursum houravg hourvar hourstd Syntax  hourpctl Syntax  daymax daysum daymean dayavg	Time maximum Time sum Time mean Time average Time variance Time standard deviation <operator>ifile ofile Time percentiles timpctl.p ifile1 ifile2 ifile3 ofile  Hourly minimum Hourly sum Hourly mean Hourly average Hourly variance Hourly standard deviation <operator>ifile ofile Hourly percentiles hourpctl.p ifile1 ifile2 ifile3 ofile  Daily minimum Daily maximum Daily maximum Daily maximum Daily mean Daily mean Daily mean Daily mean Daily average</operator></operator>	Syntax  ymonmin ymonmax ymonsum ymonavg ymonvar ymonstd Syntax  ymonpetl Syntax  yseasmin yseasmax yseassum yseasavg yseasvar yseasstd Syntax  yseaspetl	Multi-year monthly minimum	Syntax  ml2pl Syntax  ml2hl Syntax  inttime Syntax  inttime Syntax  intyear Syntax  Transformatic sp2gp sp2gpl sp2spl sp2spl sp2spl sp2spl Syntax  sp2sp Syntax  spcut Syntax	remapeta,vct[,oro] ifile ofile
ensmax enssum ensmean ensavg ensvar ensstd Syntax  enspetl Syntax  fldmin fldmax fldsum fldmean fldavg fldvar fldstd Syntax  zonmin zonmax zonsum zonmean zonavg	Ensemble maximum Ensemble sum Ensemble mean Ensemble average Ensemble variance Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspetl,p ifiles ofile  Field minimum Field maximum Field sum Field wean Field average Field variance Field standard deviation <operator> ifile ofile Field percentiles fldpetl,p ifile ofile  Zonal minimum Zonal maximum Zonal mean Zonal average</operator></operator>	timmax timsum timmean timavg timvar timstd Syntax  timpctl Syntax  hourmin hourmax hoursum hourwar hourvar hourstd Syntax  daymin daymax daysum daymean	Time maximum Time sum Time mean Time average Time variance Time standard deviation <operator> ifile ofile Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly average Hourly average Hourly standard deviation <operator> ifile ofile Hourly percentiles hourpctl,p ifile1 ifile2 ifile3 ofile  Daily minimum Daily sum Daily maximum Daily sum Daily maximum Daily sum Daily wean Daily average Daily variance</operator></operator>	Syntax  ymonmin ymonmax ymonsum ymonavg ymonvar ymonstd Syntax  ymonpetl Syntax  yseasmin yseasmax yseassum yseasavg yseasvar yseasstd Syntax  yseaspetl	Multi-year monthly minimum	Syntax  ml2pl Syntax  ml2hl Syntax  inttime Syntax  intntime Syntax  intyear Syntax  Transformatic sp2gp sp2gpl sp2spl gp2sp gp2spl Syntax  sp2sp Syntax  spcut Syntax  dv2uv	remapeta,vct[,oro] ifile ofile
ensmax enssum ensmean ensavg ensvar ensstd Syntax  enspettl Syntax  fldmin fldmax fldsum fldmean fldavg fldvar fldstd Syntax  zonmin zonmax zonsum zonmean zonavg zonvar	Ensemble maximum Ensemble sum Ensemble mean Ensemble average Ensemble variance Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspetl,p ifiles ofile  Field minimum Field maximum Field sum Field average Field variance Field standard deviation <operator> ifile ofile  Field percentiles fidpetl,p ifile ofile  Zonal minimum Zonal maximum Zonal sum Zonal average Zonal variance</operator></operator>	timmax timsum timmean timavg timvar timstd Syntax  timpctl Syntax  hourmin hourmax hoursum houravg hourvar hourstd Syntax  hourpctl Syntax  daymax daysum daymean dayavg	Time maximum Time sum Time mean Time average Time variance Time standard deviation <operator>ifile ofile Time percentiles timpctl.p ifile1 ifile2 ifile3 ofile  Hourly minimum Hourly sum Hourly mean Hourly average Hourly variance Hourly standard deviation <operator>ifile ofile Hourly percentiles hourpctl.p ifile1 ifile2 ifile3 ofile  Daily minimum Daily maximum Daily maximum Daily maximum Daily mean Daily mean Daily mean Daily mean Daily average</operator></operator>	Syntax  ymonmin ymonmax ymonsum ymonavg ymonvar ymonstd Syntax  ymonpetl Syntax  yseasmin yseasmax yseassum yseasavg yseasvar yseasstd Syntax  yseaspetl	Multi-year monthly minimum	Syntax  ml2pl Syntax  ml2hl Syntax  inttime Syntax  intntime Syntax  intyear Syntax  Transformatic sp2gp sp2gpl sp2sp gp2sp Syntax  sp2sp Syntax  spcut Syntax	remapeta,vct[,oro] ifile ofile
ensmax enssum ensmean ensavg ensvar ensstd  Syntax  fldmin fldmax fldsum fldwar fldvar fldstd  Syntax	Ensemble maximum Ensemble sum Ensemble mean Ensemble daverage Ensemble variance Ensemble standard deviation <operator>ifiles ofile Ensemble percentiles enspctl,p ifiles ofile  Field minimum Field maximum Field mean Field average Field variance Field standard deviation <operator>ifile ofile  Field percentiles fldpctl,p ifile ofile  Zonal minimum Zonal maximum Zonal awaim Zonal average Zonal variance Zonal standard deviation</operator></operator>	timmax timsum timmean timavg timvar timstd Syntax  timpctl Syntax  hourmin hourmax hoursum hourwar hourvar hourstd Syntax  daymin daymax daysum daywar dayvar daystd	Time maximum Time sum Time mean Time average Time variance Time standard deviation <operator> ifile ofile  Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile  Hourly minimum Hourly maximum Hourly mean Hourly average Hourly variance Hourly variance Hourly standard deviation <operator> ifile ofile  Daily minimum Daily maximum Daily maximum Daily sum Daily sum Daily sum Daily wariance Daily variance Daily variance Daily standard deviation</operator></operator>	Syntax  ymonmin ymonmax ymonsum ymonavg ymonvar ymonstd Syntax  ymonpetl Syntax  yseasmin yseasmax yseassum yseasavg yseasvar yseasstd Syntax  yseaspetl	Multi-year monthly minimum	Syntax  ml2pl Syntax  ml2hl Syntax  inttime Syntax  intntime Syntax  intyear Syntax  Transformatic sp2gp sp2gpl sp2spl gp2sp gp2spl Syntax  sp2sp Syntax  spcut Syntax  dv2uv	remapeta,vct[,oro] ifile ofile
ensmax enssum ensmean ensavg ensvar ensstd  Syntax  fldmin fldmax fldsum fldwar fldvar fldstd  Syntax  syntax	Ensemble maximum Ensemble sum Ensemble mean Ensemble daverage Ensemble variance Ensemble standard deviation <operator>ifiles ofile Ensemble percentiles enspctl,p ifiles ofile  Field minimum Field maximum Field mean Field average Field variance Field standard deviation <operator>ifile ofile  Field percentiles fldpctl,p ifile ofile  Zonal minimum Zonal maximum Zonal awaim Zonal average Zonal variance Zonal standard deviation</operator></operator>	timmax timsum timmean timavg timvar timstd Syntax  timpctl Syntax hourman hourwar hoursum hourwar hourstd Syntax  hourpctl Syntax  daymin daymax daysum daywar dayavg dayvar daystd Syntax	Time maximum Time sum Time mean Time average Time variance Time standard deviation <operator> ifile ofile  Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile  Hourly minimum Hourly maximum Hourly mean Hourly average Hourly variance Hourly variance Hourly standard deviation <operator> ifile ofile  Daily minimum Daily maximum Daily maximum Daily sum Daily suriance Daily standard deviation <operator> ifile ofile</operator></operator></operator>	Syntax  ymonmin ymonmax ymonsum ymonavg ymonvar ymonstd Syntax  ymonpetl Syntax  yseasmin yseasmax yseassum yseasavg yseasvar yseasstd Syntax  yseaspetl	Multi-year monthly minimum	Syntax  ml2pl Syntax  ml2hl Syntax  inttime Syntax  intntime Syntax  intyear Syntax  Transformatic sp2gp sp2gpl sp2sp gp2spl sp2sp gp2spl Syntax  sp2sp Syntax  spcut Syntax	remapeta,vct[,oro] ifile ofile
ensmax enssum ensmean ensavg ensvar ensstd  Syntax  enspetl  Syntax  fldmin fldmax fldsum fldwar fldvar fldstd  Syntax   syntax  flopetl  Syntax  zonmin zonmax zonsum zonmean zonavg zonvar zonstd  Syntax	Ensemble maximum Ensemble sum Ensemble mean Ensemble deviation <operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile  Field minimum Field maximum Field mean Field average Field variance Field variance Field standard deviation  <operator> ifile ofile  Zonal minimum Zonal maximum Zonal wariance Zonal variance Zonal standard deviation  <operator> ifile ofile  Zonal minimum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation  <operator> ifile ofile  Zonal variance Zonal standard deviation  <operator> ifile ofile</operator></operator></operator></operator></operator>	timmax timsum timmean timavg timvar timstd Syntax  timpctl Syntax  hourmin hourmax hoursum hourwar hourvar hourstd Syntax  daymin daymax daysum daywar dayvar daystd	Time maximum Time sum Time mean Time average Time variance Time standard deviation <operator> ifile ofile  Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile  Hourly minimum Hourly maximum Hourly mean Hourly average Hourly variance Hourly variance Hourly standard deviation <operator> ifile ofile  Daily minimum Daily maximum Daily maximum Daily sum Daily sum Daily sum Daily wariance Daily variance Daily variance Daily standard deviation</operator></operator>	Syntax  ymonmin ymonmax ymonsum ymonavg ymonvar ymonstd Syntax  ymonpetl Syntax  yseasmin yseasmax yseassum yseasavg yseasvar yseasstd Syntax  yseaspetl	Multi-year monthly minimum	Syntax  ml2pl Syntax  ml2hl Syntax  inttime Syntax  inttime Syntax  intyear Syntax  Transformatic sp2gp sp2gpl sp2spl sp2spl sp2spl Syntax  sp2ut Syntax  spcut Syntax	remapeta,vct[,oro] ifile ofile
ensmax enssum ensmean ensavg ensvar ensstd Syntax  fldmin fldmax fldsum fldmean fldavg fldvar fldstd Syntax  zonmin zonmax zonsum zonmean zonavg zonvar zonstd Syntax  syntax	Ensemble maximum Ensemble sum Ensemble mean Ensemble daverage Ensemble variance Ensemble standard deviation <operator>ifiles ofile Ensemble percentiles enspctl,p ifiles ofile  Field minimum Field maximum Field mean Field average Field variance Field standard deviation <operator>ifile ofile  Field percentiles fldpctl,p ifile ofile  Zonal minimum Zonal maximum Zonal awaim Zonal average Zonal variance Zonal standard deviation</operator></operator>	timmax timsum timmean timavg timvar timstd Syntax  timpctl Syntax hourman hourwar hoursum hourwar hourstd Syntax  hourpctl Syntax  daymin daymax daysum daywar dayavg dayvar daystd Syntax	Time maximum Time sum Time mean Time average Time variance Time standard deviation <operator> ifile ofile  Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile  Hourly minimum Hourly maximum Hourly mean Hourly average Hourly variance Hourly variance Hourly standard deviation <operator> ifile ofile  Daily minimum Daily maximum Daily maximum Daily sum Daily suriance Daily standard deviation <operator> ifile ofile</operator></operator></operator>	Syntax  ymonmin ymonmax ymonsum ymonavg ymonvar ymonstd Syntax  ymonpetl Syntax  yseasmin yseasmax yseassum yseasavg yseasvar yseasstd Syntax  yseaspetl	Multi-year monthly minimum	Syntax  ml2pl Syntax  ml2hl Syntax  inttime Syntax  intntime Syntax  intyear Syntax  Transformatic sp2gp sp2gpl sp2sp gp2spl sp2sp gp2spl Syntax  sp2sp Syntax  spcut Syntax	remapeta,vct[,oro] ifile ofile

Formatted I/		eca_hd Syntax	Heating degree days per time period eca_hd[,T1[,T2]] ifile ofile
input Syntax	ASCII input input,grid ofile	eca_hwdi	Heat wave duration index wrt mean of reference p
inputsrv	SERVICE input	Syntax	eca_hwdi[,nday[,T]] ifile1 ifile2 ofile
inputext	EXTRA input	eca_hwfi	Warm spell days index wrt 90th percentile of refer
Syntax	<pre><operator> ofile</operator></pre>	Syntax	eca_hwfi[,nday] ifile1 ifile2 ofile
output	ASCII output	eca_id	Ice days index per time period
Syntax	output ifiles	Syntax	eca_id ifile ofile
outputf	Formatted output	eca_r10mm	Heavy precipitation days index per time period
Syntax	outputf,format,nelem ifiles Integer output	Syntax	eca_r10mm ifile ofile
outputsrv	SERVICE output	eca_r20mm	Very heavy precipitation days index per time peri
outputext	EXTRA output	Syntax	eca_r20mm ifile ofile
Syntax	<pre><operator> ifiles</operator></pre>	eca_r75p	Moderate wet days wrt 75th percentile of reference
		Syntax	eca_r75p ifile1 ifile2 ofile
Miscellaneous	i e e e e e e e e e e e e e e e e e e e	eca_r75ptot Syntax	Precipitation percent due to R75p days eca_r75ptot ifile1 ifile2 ofile
gradsdes1	Grads data descriptor file (version 1 GRIB map)		
gradsdes2	GrADS data descriptor file (version 2 GRIB map)	eca_r90p	Wet days wrt 90th percentile of reference period
Syntax	<pre><operator> ifile</operator></pre>	Syntax	eca_r90p ifile1 ifile2 ofile
timsort	Sort over the time	eca_r90ptot	Precipitation percent due to R90p days
Syntax	timsort ifile ofile	Syntax	eca_r90ptot ifile1 ifile2 ofile
const	Create a constant field	eca_r95p	Very wet days wrt 95th percentile of reference per
Syntax	const,const,grid ofile	Syntax	eca_r95p ifile1 ifile2 ofile
random	Create a field with random values	eca_r95ptot	Precipitation percent due to R95p days
Syntax	random,grid ofile	Syntax	eca_r95ptot ifile1 ifile2 ofile
rotuvb	Backward rotation	eca_r99p	Extremely wet days wrt 99th percentile of referen
Syntax	${f rotuvb}, u, v,$ ifile ofile	Syntax	eca_r99p ifile1 ifile2 ofile
mastrfu	Mass stream function	eca_r99ptot	*
Syntax	mastrfu ifile ofile	Svntax	Precipitation percent due to R99p days eca_r99ptot ifile1 ifile2 ofile
wct	Windchill temperature (C)		
Syntax	wct ifile1 ifile2 ofile	eca_rr1 Syntax	Wet days index per time period
fdns	Frost days where no snow index per time period	V	eca_rr1 ifile ofile
Syntax	fdns ifile1 ifile2 ofile	eca_rx1day	Highest one day precipitation amount per time pe
strwin	Strong wind days index per time period	Syntax	eca_rx1day[,mode] ifile ofile
	btiong wind days index per time period	- 1	
Syntax	strwin/v/ifile ofile	eca_rx5day	
Syntax	strwin[,v] ifile ofile	eca_rx5day Syntax	Highest five-day precipitation amount per time per eca_rx5day[,x] ifile ofile
strbre	Strong breeze days index per time period		
strbre Syntax	Strong breeze days index per time period strbre ifile ofile	Syntax	
strbre Syntax	Strong breeze days index per time period strbre ifile ofile  Strong gale days index per time period	Syntax eca_sdii	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period
strbre Syntax strgal Syntax	Strong breeze days index per time period strbre ifile ofile Strong gale days index per time period strgal ifile ofile	Syntax  eca_sdii Syntax	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period eca_sdii ifile ofile
strbre Syntax strgal Syntax hurr	Strong breeze days index per time period strbre ifile ofile  Strong gale days index per time period strgal ifile ofile  Hurricane days index per time period	Syntax  eca_sdii Syntax  eca_su Syntax	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period eca_sdii ifile ofile  Summer days index per time period eca_su[,T] ifile ofile
strbre Syntax strgal Syntax	Strong breeze days index per time period strbre ifile ofile Strong gale days index per time period strgal ifile ofile	Syntax  eca_sdii Syntax  eca_su	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period eca_sdii ifile ofile  Summer days index per time period eca_su[,T] ifile ofile
strbre Syntax strgal Syntax hurr	Strong breeze days index per time period strbre ifile ofile  Strong gale days index per time period strgal ifile ofile  Hurricane days index per time period	Syntax    eca_sdii   Syntax   eca_su   Syntax   eca_tg10p   Syntax	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period eca_sdii ifile ofile  Summer days index per time period eca_su[,T] ifile ofile  Cold days percent wrt 10th percentile of reference eca_tg10p ifile1 ifile2 ofile
strbre Syntax strgal Syntax hurr Syntax	Strong breeze days index per time period strbre ifile ofile  Strong gale days index per time period strgal ifile ofile  Hurricane days index per time period	Syntax    eca_sdii   Syntax    eca_su   Syntax    eca_tg10p	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period eca_sdii ifile ofile  Summer days index per time period eca_su[,T] ifile ofile  Cold days percent wrt 10th percentile of reference eca_tg10p ifile1 ifile2 ofile  Warm days percent wrt 90th percentile of reference
strbre Syntax strgal Syntax hurr Syntax  ECA indices	Strong breeze days index per time period strbre ifile ofile  Strong gale days index per time period strgal ifile ofile  Hurricane days index per time period hurr ifile ofile	Syntax    eca_sdii   Syntax   eca_su   Syntax   eca_tg10p   Syntax   eca_tg90p   Syntax	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period eca_sdii ifile ofile  Summer days index per time period eca_su[,T] ifile ofile  Cold days percent wrt 10th percentile of reference eca_tg10p ifile1 ifile2 ofile  Warm days percent wrt 90th percentile of reference eca_tg90p ifile1 ifile2 ofile
strbre Syntax strgal Syntax hurr Syntax ECA indices eca_cdd	Strong breeze days index per time period strbre ifile ofile  Strong gale days index per time period strgal ifile ofile  Hurricane days index per time period hurr ifile ofile  Consecutive dry days index per time period	Syntax    eca_sdii   Syntax   eca_su   Syntax   eca_tg10p   Syntax   eca_tg90p   Syntax   eca_tg10p   Syntax	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period eca_sdii ifile ofile  Summer days index per time period eca_su[,T] ifile ofile  Cold days percent wrt 10th percentile of reference eca_tg10p ifile1 ifile2 ofile  Warm days percent wrt 90th percentile of reference eca_tg90p ifile1 ifile2 ofile  Cold nights percent wrt 10th percentile of reference
strbre Syntax  strgal Syntax  hurr Syntax  ECA indices  eca_cdd Syntax	Strong breeze days index per time period strbre ifile ofile  Strong gale days index per time period strgal ifile ofile  Hurricane days index per time period hurr ifile ofile  Consecutive dry days index per time period eca.cdd ifile ofile	Syntax  eca_sdii Syntax  eca_su Syntax  eca_tg10p Syntax  eca_tg90p Syntax  eca_tg90p Syntax	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period eca_sdii ifile ofile  Summer days index per time period eca_su[,T] ifile ofile  Cold days percent wrt 10th percentile of reference eca_tg10p ifile1 ifile2 ofile  Warm days percent wrt 90th percentile of reference eca_tg90p ifile1 ifile2 ofile  Cold nights percent wrt 10th percentile of reference eca_tn10p ifile1 ifile2 ofile
strbre Syntax strgal Syntax hurr Syntax  ECA indices eca_cdd Syntax eca_cfd	Strong breeze days index per time period strbre ifile ofile  Strong gale days index per time period strgal ifile ofile  Hurricane days index per time period hurr ifile ofile  Consecutive dry days index per time period eca_cdd ifile ofile  Consecutive frost days index per time period	Syntax  eca_sdii Syntax  eca_su Syntax  eca_tg10p Syntax  eca_tg90p Syntax  eca_tn10p Syntax  eca_tn10p Syntax	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period eca_sdii ifile ofile  Summer days index per time period eca_su[,T] ifile ofile  Cold days percent wrt 10th percentile of reference eca_tg10p ifile1 ifile2 ofile  Warm days percent wrt 90th percentile of reference eca_tg90p ifile1 ifile2 ofile  Cold nights percent wrt 10th percentile of reference eca_tn10p ifile1 ifile2 ofile  Warm nights percent wrt 90th percentile of reference.
strbre Syntax  strgal Syntax  hurr Syntax  ECA indices  eca_cdd Syntax  eca_cfd Syntax	Strong breeze days index per time period strbre ifile ofile  Strong gale days index per time period strgal ifile ofile  Hurricane days index per time period hurr ifile ofile  Consecutive dry days index per time period eca_cdd ifile ofile  Consecutive frost days index per time period eca_cfd ifile ofile	Syntax  eca_sdii Syntax  eca_su Syntax  eca_tg10p Syntax  eca_tg90p Syntax  eca_tn10p Syntax  eca_tn10p Syntax	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period eca_sdii ifile ofile  Summer days index per time period eca_su[,T] ifile ofile  Cold days percent wrt 10th percentile of reference eca_tg10p ifile1 ifile2 ofile  Warm days percent wrt 90th percentile of reference eca_tg90p ifile1 ifile2 ofile  Cold nights percent wrt 10th percentile of reference eca_tn10p ifile1 ifile2 ofile  Warm nights percent wrt 90th percentile of reference eca_tn90p ifile1 ifile2 ofile
strbre Syntax strgal Syntax hurr Syntax  ECA indices eca_cdd Syntax eca_cfd Syntax eca_csu	Strong breeze days index per time period strbre ifile ofile  Strong gale days index per time period strgal ifile ofile  Hurricane days index per time period hurr ifile ofile  Consecutive dry days index per time period eca_cdd ifile ofile  Consecutive frost days index per time period eca_cfd ifile ofile  Consecutive summer days index per time period	Syntax  eca_sdii Syntax  eca_su Syntax  eca_tg10p Syntax  eca_tg90p Syntax  eca_tn10p Syntax  eca_tn10p Syntax  eca_tn10p Syntax	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period eca_sdii ifile ofile  Summer days index per time period eca_su[,T] ifile ofile  Cold days percent wrt 10th percentile of reference eca_tg10p ifile1 ifile2 ofile  Warm days percent wrt 90th percentile of reference eca_tg90p ifile1 ifile2 ofile  Cold nights percent wrt 10th percentile of reference eca_tn10p ifile1 ifile2 ofile  Warm nights percent wrt 90th percentile of reference eca_tn90p ifile1 ifile2 ofile  Tropical nights index per time period
strbre Syntax  strgal Syntax  hurr Syntax  ECA indices  eca_cdd Syntax  eca_cfd Syntax	Strong breeze days index per time period strbre ifile ofile  Strong gale days index per time period strgal ifile ofile  Hurricane days index per time period hurr ifile ofile  Consecutive dry days index per time period eca_cdd ifile ofile  Consecutive frost days index per time period eca_cfd ifile ofile	Syntax  eca_sdii Syntax  eca_su Syntax  eca_tg10p Syntax  eca_tg90p Syntax  eca_tn10p Syntax  eca_tn10p Syntax	eca_rx5day[,x] ifile ofile  Simple daily intensity index per time period eca_sdii ifile ofile  Summer days index per time period eca_su[,T] ifile ofile  Cold days percent wrt 10th percentile of reference eca_tg10p ifile1 ifile2 ofile  Warm days percent wrt 90th percentile of reference eca_tg90p ifile1 ifile2 ofile  Cold nights percent wrt 10th percentile of reference eca_tn10p ifile1 ifile2 ofile  Warm nights percent wrt 90th percentile of reference eca_tn90p ifile1 ifile2 ofile
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