CDO	Reference	Card
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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 < 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: $t < RES > grid$, $r < NX > x < NY >$
-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

Operators			
Information			
info	Dataset information listed by code number		
infov	Dataset information listed by variable name		
map	Dataset information and simple map		
Syntax	< operator > ifiles		
sinfo	Short dataset information listed by code number		
sinfov	Short dataset information listed by variable name		
Syntax	< operator > ifile		
diff	Compare two datasets listed by code number		
diffv	Compare two datasets listed by variable name		
Syntax	<pre><operator> ifile1 ifile2</operator></pre>		
npar	Number of parameters		
nlevel	Number of levels		
nyear	Number of years		
nmon	Number of months		
ndate	Number of dates		
ntime	Number of time steps		
Syntax	<pre><operator> ifile</operator></pre>		
showformat	Show file format		
showcode	Show code numbers		
showname	Show variable names		
showstdname	Show standard names		
showlevel	Show levels		
showltype	Show GRIB level types		
showyear	Show years		
showmon	Show months		
showdate	Show dates		
showtime	Show time steps		
Syntax	<pre><operator> ifile</operator></pre>		
pardes	Parameter description		
griddes	Grid description		
vct	Vertical coordinate table		
Syntax	<pre><operator> ifile</operator></pre>		

seltime

selhour

selday

selmon

selyear

selseas

seldate

selsmon

Syntax

Syntax

Syntax

Syntax

Syntax

Syntax

Syntax

Syntax

Select times

Select hours

Select days

Select months

Select seasons

Select single month

Select years

Select dates

seltime, times ifile ofile

selhour, hours ifile ofile

selday, days ifile ofile

selmon, months ifile ofile

selyear, years ifile ofile

selseas, seasons ifile ofile

seldate,date1[,date2] ifile ofile

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

File operation	ns	
copy	Copy datasets	
cat	Concatenate datasets	
Syntax	<pre><operator> ifiles ofile</operator></pre>	
replace	Replace variables	
Syntax	replace ifile1 ifile2 ofile	
merge	Merge datasets with different fields	
merge mergetime	Merge datasets with different fields Merge datasets sorted by date and time	
Syntax	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	
v	*	
splitcode	Split code numbers Split variable names	
splitname splitlevel	Split levels	
splitgrid	Split grids	
splitzaxis	Split zaxis	
Syntax	<pre><pre>< operator > ifile oprefix</pre></pre>	
•	•	
splithour	Split hours	
splitday	Split days	
splitmon splitseas	Split months Split seasons	
splitseas	Split years	
Syntax	<pre>spint years <pre><operator> ifile oprefix</operator></pre></pre>	
•	•	
splitsel	Split time selection	
Syntax	splitsel,nsets[,noffset[,nskip]] ifile oprefix	
Selection selcode		
Selection	<pre>splitsel,nsets[,noffset[,nskip]] ifile oprefix</pre>	
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Selection selcode delcode	splitsel,nsets[,noffset[,nskip]] ifile oprefix Select variables by code number Delete variables by code number	
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Selection selcode delcode Syntax selname delname Syntax selstdname	Select variables by code number Delete variables by code number <pre>coperator>,codes ifile ofile</pre> Select variables by name Delete variables by name <pre>coperator>,vars ifile ofile</pre> Select variables by standard name	
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Selection selcode delcode Syntax selname delname Syntax selstdname Syntax sellevel Syntax selgrid Syntax selgridname Syntax selgridname Syntax selzaxis Syntax selzaxisname Syntax selzaxisname Syntax selatabnum Syntax seltabnum Syntax seltabnum Syntax seltasnum Syntax	Select variables by code number Delete variables by code number Coperator > codes ifile ofile Select variables by name Delete variables by name Delete variables by name Coperator > codes ifile ofile Select variables by standard name selstdname,stdnames ifile ofile Select levels sellevel,levels ifile ofile Select grids selgrid,grids ifile ofile Select grids by name selgridname,gridnames ifile ofile Select grids by name selgridname,gridnames ifile ofile Select zaxes selzaxis,zaxes ifile ofile Select date Select grids by name selzaxisname,zaxisnames ifile ofile Select date Select date Select grids by name selzaxisname,zaxisnames ifile ofile Select races by name selzaxisname,zaxisnames ifile ofile Select GRIB level types selltype,ltypes ifile ofile Select parameter table numbers seltabnum,tabnums ifile ofile Select records selrec,records ifile ofile	
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sellonlatbox	Select a longitude/latitude box	chcode	Change code number
Syntax	sellonlatbox, lon1, lon2, lat1, lat2 ifile ofile	Syntax	<pre>chcode,oldcode,newcode[,] ifile ofile</pre>
selindexbox	Select an index box	chname	Change variable name
Syntax	selindexbox,idx1,idx2,idy1,idy2 ifile ofile	Syntax	chname,ovar,nvar, ifile ofile
		chlevel	Change level
		Syntax	chlevel,oldlev,newlev, ifile ofile
		chlevelc	Change level of one code
Conditional se	election	Syntax	chlevelc,code,oldlev,newlev ifile ofile
	election	chlevelv	Change level of one variable
ifthen	If then	Syntax	chlevelv,var,oldlev,newlev ifile ofile
ifnotthen	If not then	setgrid	Set grid
Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>	Syntax	setgrid,grid ifile ofile
ifthenelse	If then else	setgridtype	Set grid type
Syntax	ifthenelse ifile1 ifile2 ifile3 ofile	Syntax	setgridtype,gridtype ifile ofile
ifthenc	If then constant	setzaxis	Set zaxis
ifnotthenc	If not then constant	Syntax	setzaxis,zaxis ifile ofile
Syntax	<operator>,c ifile ofile</operator>	sotratt	Set global attribute

setgatt

setgatts

invertlat

Syntax

Comparison

	Equal
	Not equal
	Less equal
	Less than
	Greater equal
	Greater than
Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>
	Equal constant
	Not equal constant
	Less equal constant
	Less then constant
	Greater equal constant
	Greater then constant
Syntax	<pre><operator>,c ifile ofile</operator></pre>
	v

Set parameter table

Set code number ${f setcode}, code$ ifile ofile

Set variable name

setpartab, table ifile ofile

lt ge		Less than Greater equal Greater than
gt	Syntax	<pre></pre> <pre><operator> ifile1 ifile2 ofile</operator></pre>
	•	
eqc		Equal constant
nec		Not equal constant
lec		Less equal constant
ltc		Less then constant
gec		Greater equal constant
gtc		Greater then constant
	Syntax	< operator >, c ifile ofile

Modification setpartab

setcode

setname

Syntax

Syntax

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	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

invertion	invert iongitude
invertlatdes	Invert latitude description
invertiondes	Invert longitude description
invertlatdata	Invert latitude data
invertlondata	Invert longitude data
Syntax	$<\!operator\!>$ ifile ofile
maskregion	Mask regions
Syntax	maskregion, regions ifile ofile
masklonlatbox	Mask a longitude/latitude box
Syntax	masklonlatbox, lon1, lon2, lat1, lat2 ifile ofile
maskindexbox	Mask an index box
Syntax	maskindexbox,idx1,idx2,idy1,idy2 ifile ofil

Set global attribute

Set global attributes

Invert latitude

setgatts, attfile ifile ofile

setgatt, attname, attstring ifile ofile

setclonlatbox	Set a longitude/latitude box to constant
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
Syntax	enlarge grid ifile ofile

	Symax	emarge,gra iiiie oiiie
	setmissval	Set a new missing value
	Syntax	setmissval, miss ifile ofile
	setctomiss	Set constant to missing value
	setmisstoc	Set missing value to constant
	Syntax	< operator >, c ifile ofile
_	setrtomiss	Set range to missing value
	Svntax	setrtomiss.rmin.rmax ifile ofile

Arithmetic

asin

Syntax

	11110111	iicuic	
ı	expr		Evaluate expressions
1		Syntax	expr,instr ifile ofile
ı	exprf		Evaluate expressions from script
1		Syntax	exprf, filename ifile ofile
l	abs		Absolute value
l	int		Integer value
1	nint		Nearest integer value
ı	\mathbf{sqr}		Square
Į	\mathbf{sqrt}		Square root
ı	exp		Exponential
	ln		Natural logarithm
ı	log10		Base 10 logarithm
	\sin		Sine
I	cos		Cosine
ı	tan		Tangent

Arc sine

Arc cosine

Arc tangent

 $<\!operator\!>$ ifile ofile

Systex Coperators of the control of			_					
Maily	addc	Add a constant	vertmin	Vertical minimum	yearmin	Yearly minimum	subtrend	Subtract trend
Section Personal	subc	Subtract a constant	vertmax	Vertical maximum	yearmax	Yearly maximum	Syntax	subtrend ifile1 ifile2 ifile3 ofile
Section Sect	mulc	Multiply with a constant	vertsum	Vertical sum	yearsum	Yearly sum		
March Section Sectio	divc	Divide by a constant	vertmean	Vertical mean	yearmean	Yearly mean		
Mode	Syntax	< operator >, c ifile ofile	vertavg	Vertical average	yearavg	Yearly average		
Second Second Secon	add	Add two fields	vertvar	Vertical variance	yearvar	Yearly variance	Interpolation	
			vertstd	Vertical standard deviation	yearstd	Yearly standard deviation	nomonhil	Dilinger interneletion
			Syntax	< operator > ifile ofile	Syntax	<pre><operator> ifile ofile</operator></pre>		* * * * * * * * * * * * * * * * * * * *
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Second Minimum of two fields Minimum of two fiel								
Second								
Second					seasmin		Syntax	
The stage of state of the personal pe				S .	seasmax		genbil	Generate bilinear interpolation weights
Settle country of the				0 0	seassum	Seasonal sum	genbic	Generate bicubic interpolation weights
Second control Seco	ymonadd			S .	seasmean	Seasonal mean	gencon	Generate conservative interpolation weights
Spite Sequence with the state of the state o	ymonsub	v v			seasavg	Seasonal average	gendis	Generate distance-weighted averaging weights
Syntax Concerner with the state of the state				2 22	seasvar	Seasonal variance	Syntax	<pre><operator>,grid ifile ofile</operator></pre>
System Company with object or season of the company	ymondiv		timselpctl	~ ·	seasstd	Seasonal standard deviation	roman	SCRIP grid remanning
Second procession Content of the process of the	Syntax	< operator > ifile1 ifile2 ofile	Syntax	<pre>timselpctl,p,nsets[,noffset[,nskip]] ifile1 ifile2 i</pre>	Syntax	<pre><operator> ifile ofile</operator></pre>		
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Booking Multiply with days per year Paramon Para	_						interpolate	PINGO grid interpolation
Processing Pro				S .	v			
Part Common System Part				S .			Syntax	<pre><operator>,grid ifile ofile</operator></pre>
Second processor Second proc				o .			remapeta	Reman vertical hybrid level
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Statistical values Part P					ydaymean	ů ů		- / 1/
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Statistical values Syntax Common The minimum The minimum The minimum The minimum The minimum The minimum The maximum The minimum The warrage The warrage The minimum The warrage The warrage The warrage The minimum The warrage The			J.		ydayvar	ů ů		
Statistical values			runpctl	Running percentiles			ml2hl	
timmax Essemble minimum Essemble minimum Essemble minimum Essemble maximum Essemble maximum Essemble maximum Essemble maximum Essemble maximum Essemble maximum Essemble winding			Syntax	runpctl,p,nts ifile1 ofile	Syntax	<pre><operator> ifile ofile</operator></pre>	Syntax	ml2hl,hlevels ifile ofile
timmax Essemble minimum Essemble minimum Essemble minimum Essemble maximum Essemble maximum Essemble maximum Essemble maximum Essemble maximum Essemble maximum Essemble winding	Statistical val	lues	timmin	Time minimum	vdavnetl	Multi-year daily percentiles	inttime	Time interpolation
comman C	Statistical val	iucs						
ensaum Essemble machinum ensaum (immean time mean (immean times and times and times and times and times are researched to the process of the company of the process of the process of the company of the process of the	onemin	Encamble minimum			-		J	
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Ensemble mean Ensemble mean Ensemble warange Ensemble variance Ensemble variance Ensemble variance Syntax Coperator's 1711s of 11s Vinter Time variance Syntax Vinter					ymonmax			,
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Fasemble standard deviation Syntax Fasemble standard deviation Syntax Fasemble standard deviation Syntax Fasemble percentiles Syntax Fasemble percentiles Syntax Fasemble percentiles Syntax Synt	ensavg	Ensemble average	timstu					
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Syntax S	ensstd Syntax	Ensemble standard deviation <pre><operator> ifiles ofile</operator></pre>	timpctl	Time percentiles	ymonvar ymonstd	Multi-year monthly variance Multi-year monthly standard deviation	Transformation	on
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Ridesum Nourrean	ensstd Syntax enspctl Syntax	Ensemble standard deviation <pre><operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile</operator></pre>	timpetl Syntax	Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum	ymonvar ymonstd Syntax ymonpctl	Multi-year monthly variance Multi-year monthly standard deviation <operator> ifile ofile Multi-year monthly percentiles</operator>	sp2gp	Spectral to gridpoint
Field sum Field sum Field sum Field sum Field waran Field waran Field warance Field variance Field standard deviation Syntax Operators if it of ite	ensstd Syntax enspctl Syntax	Ensemble standard deviation <pre><operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile</operator></pre>	timpctl Syntax	Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum	ymonvar ymonstd Syntax ymonpctl Syntax	Multi-year monthly variance Multi-year monthly standard deviation < operator > ifile ofile Multi-year monthly percentiles ymonpctl,p ifile1 ifile2 ifile3 ofile	sp2gp sp2gpl	Spectral to gridpoint Spectral to gridpoint (linear)
Field mean Field warage Field warage Field variance Field percentiles Syntax coperator > if ile of ile	ensstd Syntax enspctl Syntax fldmin	Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum</operator>	timpctl Syntax hourmin hourmax hoursum	Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum	ymonvar ymonstd Syntax ymonpctl Syntax yseasmin	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	$\begin{array}{c} \mathrm{sp2gp} \\ \mathrm{sp2gpl} \\ \mathrm{gp2sp} \end{array}$	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral
Field avariance Field avariance Field variance Fi	ensstd Syntax enspetl Syntax fldmin fldmax	Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum Field maximum</operator>	timpctl Syntax hourmin hourmax hoursum hourmean	Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly mean	ymonvar ymonstd Syntax ymonpctl Syntax yseasmin yseasmax	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</operator>	sp2gp sp2gpl gp2sp gp2spl	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear)
fidstar Field variance Field percentiles Field percentile	ensstd Syntax enspctl Syntax fldmin fldmax fldsum	Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum Field maximum Field sum</operator>	timpetl Syntax hourmin hourmax hoursum hourmean houravg	Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly mean Hourly average	ymonvar ymonstd Syntax ymonpetl Syntax yseasmin yseasmax yseassum	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 sum</operator>	sp2gp sp2gpl gp2sp gp2spl Syntax	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) < operator > ifile ofile
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Syntax S	ensstd Syntax enspetl Syntax fldmin fldmax fldsum fldmean fldavg	Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspetl.p ifiles ofile Field minimum Field maximum Field sum Field average</operator>	timpetl Syntax hourmin hourmax hoursum hourmean houravg hourvar hourstd	Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly mean Hourly average Hourly variance Hourly standard deviation	ymonvar ymonstd Syntax ymonpctl Syntax yseasmin yseasmax yseassum yseasmean yseasavg	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 sum Multi-year seasonal mean Multi-year seasonal average</operator>	sp2gp sp2gpl gp2sp gp2spl syntax sp2sp Syntax	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) <operator> ifile ofile Spectral to spectral sp2sp,trunc ifile ofile</operator>
Syntax EdgetLip file of file daymin Daily minimum daymax Daily maximum daysum daysum Daily maximum daysum dusturing daysum daysum daysum daysum daysum daysum	ensstd Syntax enspettl Syntax fldmin fldmax fldsum fldmean fldavg fldvar fldstd	Ensemble standard deviation < operator > ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum Field maximum Field sum Field wean Field average Field variance Field standard deviation	timpetl Syntax hourmin hourmax hoursum houravg hourvar hourstd Syntax	Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly average Hourly variance Hourly standard deviation < operator > ifile ofile	ymonvar ymonstd Syntax ymonpctl Syntax yseasmin yseasmax yseassum yseasavg yseasvar	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 sum Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal average Multi-year seasonal variance</operator>	sp2gp sp2gpl gp2sp gp2spl Syntax sp2sp Syntax spcut	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) <operator> ifile ofile Spectral to spectral sp2sp.trunc ifile ofile Cut spectral wave number</operator>
Syntax Input Syntax Sy	ensstd Syntax enspettl Syntax fldmin fldmax fldsum fldmean fldavg fldvar fldstd	Ensemble standard deviation < operator > ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum Field maximum Field sum Field wean Field average Field variance Field standard deviation	timpetl Syntax hourmin hourmax hoursum hourmean hourayg hourvar hourstd Syntax hourpetl	Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly wean Hourly average Hourly variance Hourly standard deviation < operator > ifile ofile Hourly percentiles	ymonvar ymonstd Syntax ymonpetl Syntax yseasmin yseasmax yseassum yseasmean yseasavar yseassvar yseasstd	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 sum Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal variance Multi-year seasonal standard deviation</operator>	sp2gp sp2gpl gp2sp gp2spl Syntax sp2sp Syntax spcut Syntax	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) <operator> ifile ofile Spectral to spectral sp2sp.trunc ifile ofile Cut spectral wave number spcut,wnums ifile ofile</operator>
Zonal minimum Zonal minimum Zonal maximum Zonal sum Zonal sum Zonal sum Zonal sum Zonal sum Zonal warance Zonal variance Zonal	ensstd Syntax enspettl Syntax fldmin fldmax fldsum fldmean fldavg fldvar fldstd Syntax	Ensemble standard deviation < operator > ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum Field sum Field werage Field variance Field variance Field standard deviation < operator > ifile ofile	timpetl Syntax hourmin hourmax hoursum hourmean hourayg hourvar hourstd Syntax hourpetl	Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly wean Hourly average Hourly variance Hourly standard deviation < operator > ifile ofile Hourly percentiles	ymonvar ymonstd Syntax ymonpetl Syntax yseasmin yseasmax yseassum yseasmean yseasavar yseassvar yseasstd	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 sum Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal variance Multi-year seasonal standard deviation</operator>	sp2gp sp2gpl gp2sp gp2spl Syntax sp2sp Syntax spcut Syntax	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) <operator> ifile ofile Spectral to spectral sp2sp,trunc ifile ofile Cut spectral wave number spcut,wnums ifile ofile Divergence and vorticity to U and V wind</operator>
Zonal maximum Zonal sum Zonal verage Zonal verage Zonal variance Zonal variance Zonal standard deviation Zonal percentiles Zonal verage Zonal ver	ensstd Syntax enspetl Syntax fldmin fldmax fldsum fldmean fldavg fldvar fldstd Syntax fldpetl	Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum Field maximum Field sum Field average Field variance Field standard deviation <operator> ifile ofile Field percentiles</operator></operator>	timpetl Syntax hourmin hourmax hoursum houraean houravg hourvar hourstd Syntax hourpetl Syntax	Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly average Hourly variance Hourly standard deviation < operator > ifile ofile Hourly percentiles hourpctl,p ifile1 ifile2 ifile3 ofile	ymonvar ymonstd Syntax ymonpctl Syntax yseasmin yseasmax yseassum yseasavar yseasvar yseasvar yseasstd	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 sum Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal variance Multi-year seasonal standard deviation <operator> ifile ofile</operator></operator>	sp2gp sp2gpl gp2sp gp2spl Syntax sp2sp Syntax spcut Syntax dv2uv dv2uvl	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) <pre><pre><pre><pre>coperator > ifile</pre> Spectral to spectral Spectral to spectral sp2sp,trunc ifile ofile Cut spectral wave number spcut,wnums ifile ofile Divergence and vorticity to U and V wind Divergence and vorticity to U and V wind (linear)</pre></pre></pre>
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zontary Zonal variance zonstd Zonal standard deviation Syntax operator > iffile offile zonpetl Zonal percentiles Syntax zonpetl, pifile offile mermin Meridional maximum mersum Meridional sum mersum Meridional wareage mervar Meridional average mervar Meridional average mervar Meridional standard deviation Syntax operator > iffile offile Syntax zonpetl, pifile offile monmax Monthly sum monmean Monthly mean mersug Meridional average mervar Meridional average mervar Meridional standard deviation Syntax operator > iffile offile monmax Monthly variance mersud Meridional standard deviation Syntax operator > iffile offile monput Monthly variance mersur Meridional average mervar Meridional standard deviation Syntax operator > iffile offile monput Monthly variance mersur Meridional standard deviation Syntax operator > iffile offile monput Monthly variance mersur Meridional standard deviation Syntax operator > iffile offile monput Monthly variance mersur Meridional standard deviation Syntax operator > iffile offile monput Monthly variance monsur M	ensstd Syntax enspettl Syntax fldmin fldmax fldsum fldmean fldavg fldvar fldstd Syntax fldpettl Syntax zonmin zonmax zonsum	Ensemble standard deviation < operator > ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum Field maximum Field werage Field average Field variance Field standard deviation < operator > ifile ofile Field percentiles fldpctl,p ifile ofile Zonal minimum Zonal maximum Zonal sum	timpetl Syntax hourmin hourmax hoursum houravg hourvar hourstd Syntax hourpetl Syntax daymin daymax daysum daymean	Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly average Hourly variance Hourly standard deviation <operator> ifile ofile Hourly percentiles hourpctl,p ifile1 ifile2 ifile3 ofile Daily minimum Daily maximum Daily mean</operator>	ymonvar ymonstd Syntax ymonpctl Syntax yseasmin yseasmax yseassum yseasavar yseasvar yseasvar yseastd Syntax ydrunmin ydrunmax	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 sum Multi-year seasonal wean Multi-year seasonal variance Multi-year seasonal standard deviation <operator> ifile ofile Multi-year seasonal percentiles yseaspctl,p ifile1 ifile2 ifile3 ofile Multi-year daily running minimum Multi-year daily running maximum</operator></operator>	sp2gp sp2gpl gp2spl gp2spl sp2spl sp2sp sp2sp Syntax spcut Syntax dv2uv dv2uvl uv2dv uv2dv	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) <operator> ifile ofile Spectral to spectral sp2sp,trunc ifile ofile Cut spectral wave number spcut,wnums ifile ofile Divergence and vorticity to U and V wind Divergence and vorticity to U and V wind (linear) U and V wind to divergence and vorticity U and V wind to divergence and vorticity (linear)</operator>
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Miscellaneous		eca_hwfi Svntax	Warm spell days index wrt 90th percentile of refere
gradsdes1	GrADS data descriptor file (version 1 GRIB map)	V	eca_hwfi[,nday] ifile1 ifile2 ofile
gradsdes2	GrADS data descriptor file (version 2 GRIB map) <operator> ifile</operator>	eca_id Syntax	Ice days index per time period eca_id ifile ofile
Syntax	^	V	
smooth9	9 point smoothing smooth9 ifile ofile	eca_r10mm	Heavy precipitation days index per time period
Syntax		Syntax	eca_r10mm ifile ofile
setrtoc	Set range to constant	eca_r20mm	Very heavy precipitation days index per time perio
Syntax	setrtoc,rmin,rmax,c ifile ofile Set range to constant others to constant2	Syntax	eca_r20mm ifile ofile
Syntax	setrtoc2,rmin,rmax,c,c2 ifile ofile	eca_r75p Syntax	Moderate wet days wrt 75th percentile of reference eca_r75p ifile1 ifile2 ofile
timsort Syntax	Sort over the time timsort ifile ofile	eca_r75ptot Syntax	Precipitation percent due to R75p days eca_r75ptot ifile1 ifile2 ofile
const	Create a constant field	eca_r90p	Wet days wrt 90th percentile of reference period
Syntax	const,const,grid ofile	Syntax	eca_r90p ifile1 ifile2 ofile
random	Create a field with random values	eca_r90ptot	Precipitation percent due to R90p days
Syntax	random,grid ofile	Syntax	eca_r90ptot ifile1 ifile2 ofile
rotuvb	Backward rotation		
Syntax	rotuvb,u,v, ifile ofile	eca_r95p	Very wet days wrt 95th percentile of reference peri
mastrfu	Mass stream function	Syntax	eca_r95p ifile1 ifile2 ofile
Syntax	mastrfu ifile ofile	eca_r95ptot	Precipitation percent due to R95p days
histcount	Histogram count	Syntax	eca_r95ptot ifile1 ifile2 ofile
histsum	Histogram sum	eca_r99p	Extremely wet days wrt 99th percentile of reference
histmean	Histogram mean	Syntax	eca_r99p ifile1 ifile2 ofile
histfreq	Histogram frequency	eca_r99ptot	Precipitation percent due to R99p days
Syntax	<pre><operator>,bins ifile ofile</operator></pre>	Syntax	eca_r99ptot ifile1 ifile2 ofile
wet Syntax	Windchill temperature (C) wct ifile1 ifile2 ofile	eca_rr1 Syntax	Wet days index per time period eca_rr1 ifile ofile
fdns	Frost days where no snow index per time period	eca_rx1day	Highest one day precipitation amount per time per
Syntax	fdns ifile1 ifile2 ofile	Syntax	eca_rx1day[,mode] ifile ofile
strwin	Strong wind days index per time period	eca_rx5day	Highest five-day precipitation amount per time per
	aturnin [] ifil = efil =		
Syntax	strwin[,v] ifile ofile		
Syntax	Strong breeze days index per time period	Syntax	eca_rx5day[,x] ifile ofile
		Syntax eca_sdii	eca_rx5day[,x] ifile ofile Simple daily intensity index per time period
strbre	Strong breeze days index per time period	Syntax eca_sdii Syntax	eca_rx5day[,x] ifile ofile Simple daily intensity index per time period eca_sdii ifile ofile
strbre Syntax	Strong breeze days index per time period strbre 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
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 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	Strong breeze days index per time period strbre ifile ofile Strong gale 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
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 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	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
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 Syntax eca_tg90p	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
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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	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 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	eca_sdii Syntax eca_su 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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strbre Syntax strgal Syntax hurr Syntax ECA indices eca_cdd Syntax eca_cfd Syntax eca_csu 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 Consecutive summer days index per time period eca_csu[,T] ifile ofile	eca_sdii Syntax eca_su Syntax eca_tg10p Syntax eca_tg90p Syntax eca_tg90p Syntax eca_tn10p Syntax eca_tn10p Syntax eca_tn90p Syntax eca_tn90p 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_tn10p ifile1 ifile2 ofile Tropical nights index per time period eca_tr[,T] ifile ofile
strbre Syntax strgal Syntax hurr Syntax ECA indices eca_cdd Syntax eca_cfd Syntax eca_csu Syntax eca_cwd	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 eca_csu[,T] ifile ofile Consecutive wet 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_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 eca_tr[,T] ifile ofile Very cold days percent wrt 10th percentile of reference
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