CDO	Reference	Card

Climate Data Operators Version 1.0.8 May 2007

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Syntax

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Options

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

showtime

vardes griddes

 \mathbf{vct}

Syntax

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	<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>			
ncode	Number of codes			
nvar	Number of variables			
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 codes			
showvar	Show variable names			
showstdname	Show standard names			
showlevel	Show levels			
showltype	Show GRIB level types			
showyear	Show years			
showmon	Show months			
showdate	Show dates			

Show time steps

Grid description

Syntax < operator > ifile

Vertical coordinate table

<operator> ifile Variable description

File operations

copy

	10
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 codes
splitvar	Split variables
splitlevel	Split levels
splitgrid	Split grids
splitzaxis	Split zaxis
splitrec	Split records
Syntax	$<\!operator\!>$ ifile oprefix
splithour	Split hours
splitday	Split days
splitmon	Split months
splitseas	Split seasons
splityear	Split years
Syntax	< operator > ifile oprefix
·	

Copy datasets

Select codes

Delete codes

<operator>,codes ifile ofile

Selection selcode delcode

Syntax

	Dyntax	<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></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></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>
	selvar	Select variables
	delvar	Delete variables
	Syntax	<pre><operator>,vars ifile ofile</operator></pre>
	selstdname	Select standard names
_	Syntax	selstdname,stdnames ifile ofile
	sellevel	Select levels
	Syntax	sellevel, levels ifile ofile
	selltype	Select GRIB level types
	Syntax	selltype,ltypes ifile ofile
	selgrid	Select grids
:	Syntax	selgrid,grids ifile ofile
	selgridname	Select grids by name
ī	Syntax	selgridname,gridnames ifile ofile
	selzaxis	Select zaxes
	Syntax	selzaxis,zaxes ifile ofile
4	selzaxisname	Select zaxes by name
	Syntax	selzaxisname,zaxisnames 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
4	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	chcode,oldcode,newcode[,] ifile ofile
selindexbox	Select an index box	chvar	Change variable name
Syntax	selindexbox,idx1,idx2,idy1,idy2 ifile ofile	Syntax	chvar,ovar,nvar, ifile ofile
J		chlevel	Change level
		Syntax	chlevel,oldlev,newlev, ifile ofile
		chlevelc	Change level of one code
		Syntax	chlevelc,code,oldlev,newlev ifile ofile
Conditional s	selection	chlevely	Change level of one variable
	Lyan	Syntax	chlevelv,var,oldlev,newlev ifile ofile
ifthen	If then	setgrid	Set grid
ifnotthen	If not then	Syntax	setgrid,grid ifile ofile
Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>	setgridtype	Set grid type
ifthenelse	If then else	Syntax	setgridtype,gridtype ifile ofile
Syntax	ifthenelse ifile1 ifile2 ifile3 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
		invertlat	Invert latitude
Comparison		invertion	Invert longitude
1		invertlatdes	Invert latitude description
eq	Equal	invertiondes	Invert longitude description
ne	Not equal	invertlatdata	Invert latitude data
le lt	Less equal Less than	invertlondata	Invert longitude data
	Greater equal	Syntax	<pre><operator> ifile ofile</operator></pre>
ge gt	Greater equal Greater than	masklonlatbox	Mask a longitude/latitude box
Syntax	<pre>< operator > ifile1 ifile2 ofile</pre>	Syntax	masklonlatbox,lon1,lon2,lat1,lat2 ifile ofile
		maskindexbox	Mask an index box
eqc	Equal constant	Syntax	maskindexbox,idx1,idx2,idy1,idy2 ifile ofile
nec lec	Not equal constant Less equal constant	setclonlatbox	Set a longitude/latitude box to constant
ltc	Less then constant	Syntax	setclonlatbox,c,lon1,lon2,lat1,lat2 ifile ofile
gec	Greater equal constant	setcindexbox	Set an index box to constant
gtc	Greater then constant	Syntax	setcindexbox, c, idx1, idx2, idy1, idy2 ifile ofile
Syntax	< operator >, c ifile ofile	enlarge	Enlarge fields
		Syntax	enlarge,grid ifile ofile
		setmissval	Set a new missing value
		Syntax	setmissval,miss ifile ofile
Modification		setctomiss	Set constant to missing value
Modification		setmisstoc	Set missing value to constant
setpartab	Set parameter table	Syntax	<pre><operator>,c ifile ofile</operator></pre>
Syntax	setpartab,table ifile ofile	setrtomiss	Set range to missing value
setcode	Set code number	Syntax	setrtomiss,rmin,rmax ifile ofile
Syntax	setcode,code ifile ofile Set variable name	-	
setvar Syntax	setvar,name ifile ofile		
setlevel	Set level	+	
Syntax	setlevel, level ifile ofile	,,	
setdate	Set date	Arithmetic	
Syntax	setdate, date ifile ofile	expr	Evaluate expressions
settime	Set time	Syntax	expr.instr ifile ofile
Syntax	settime, time ifile ofile	exprf	Evaluate expressions from script file
setday	Set day	Syntax	exprf,filename ifile ofile
Syntax	setday,day ifile ofile	abs	Absolute value
	Set month	int	Integer value
setmon	setmon, month ifile ofile	nint	Nearest integer value
setmon Syntax	beemon, monen iiiic oiiic	- I	0
	Set year	sar	Square
Syntax		sqr sqrt	Square Square root
Syntax setyear	Set year	sqr sqrt exp	Square Square root Exponential
Syntax setyear Syntax settunits Syntax	Set year setyear,year ifile ofile	sqrt	Square root
Syntax setyear Syntax settunits Syntax settaxis	Set year setyear, year ifile ofile Set time units settunits, units ifile ofile Set time axis	sqrt exp	Square root Exponential
Syntax setyear Syntax settunits Syntax settaxis Syntax	Set year setyear,year ifile ofile Set time units settunits,units ifile ofile Set time axis settaxis,date,time[,inc] ifile ofile	sqrt exp ln	Square root Exponential Natural logarithm
Syntax setyear Syntax settunits Syntax settaxis Syntax setreftime	Set year setyear,year ifile ofile Set time units settunits,units ifile ofile Set time axis settaxis,date,time[,inc] ifile ofile Set reference time	sqrt exp ln log10 sin cos	Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine
Syntax setyear Syntax settunits Syntax settaxis Syntax	Set year setyear,year ifile ofile Set time units settunits,units ifile ofile Set time axis settaxis,date,time[,inc] ifile ofile	$\begin{array}{c} \mathrm{sqrt} \\ \mathrm{exp} \\ \mathrm{ln} \\ \mathrm{log} 10 \\ \mathrm{sin} \end{array}$	Square root Exponential Natural logarithm Base 10 logarithm Sine

acos

atan

Syntax

Arc cosine

Arc tangent

 $<\!operator\!>$ ifile ofile

setcalendar, calendar ifile ofile

Shift time steps

Syntax shifttime, sval ifile ofile

shifttime

addc	A 11	T	Vti1ii		Variation		Colores et torred
	Add a constant	vertmin	Vertical minimum	yearmin	Yearly minimum	subtrend	Subtract trend
subc	Subtract a constant	vertmax	Vertical maximum	yearmax	Yearly maximum	Syntax	subtrend ifile1 ifile2 ifile3 ofile
mulc	Multiply with a constant	vertsum	Vertical sum	yearsum	Yearly sum		
divc	Divide by a constant	vertmean	Vertical mean	yearmean	Yearly mean		
Syntax	< operator >, c ifile ofile	vertavg	Vertical average	yearavg	Yearly average	Interpolation	
add	Add two fields	vertvar	Vertical variance	yearvar	Yearly variance		
sub	Subtract two fields	vertstd	Vertical standard deviation	yearstd	Yearly standard deviation	remapbil	Bilinear interpolation
mul	Multiply two fields	Syntax	<pre><operator> ifile ofile</operator></pre>	Syntax	<pre><operator> ifile ofile</operator></pre>	remapbic	Bicubic interpolation
div	Divide two fields		Ti	yearpctl	V	remapcon	Conservative remapping
		selmin	Time range minimum		Yearly percentiles	remapdis	Distance-weighted averaging
min	Minimum of two fields	selmax	Time range maximum	Syntax	yearpctl,p ifile1 ifile2 ifile3 ofile	Syntax	<pre><operator>,grid ifile ofile</operator></pre>
max	Maximum of two fields	selsum	Time range sum	seasmin	Seasonal minimum		
atan2	Arc tangent of two fields	selmean	Time range mean	seasmax	Seasonal maximum	genbil	Generate bilinear interpolation weights
Syntax	< operator > ifile1 ifile2 ofile	selavg	Time range average	seassum	Seasonal sum	genbic	Generate bicubic interpolation weights
ymonadd	Add multi-year monthly time average	selvar	Time range variance		Seasonal mean	gencon	Generate conservative interpolation weights
ymonsub	Subtract multi-year monthly time average	selstd	Time range standard deviation	seasmean		gendis	Generate distance-weighted averaging weights
	Multiply multi-year monthly time average	Syntax	<pre><operator>,nsets[,noffset[,nskip]] ifile ofile</operator></pre>	seasavg	Seasonal average	Syntax	<pre><operator>,grid ifile ofile</operator></pre>
ymonmul				seasvar	Seasonal variance	remap	SCRIP grid remapping
ymondiv	Divide multi-year monthly time average	selpctl	Time range percentiles	seasstd	Seasonal standard deviation		
Syntax	< operator > ifile1 ifile2 ofile	Syntax	selpctl,p,nsets[,noffset[,nskip]] in1 in2 in3 out	Syntax	< operator > ifile ofile	Syntax	remap,grid,weights ifile ofile
muldpm	Multiply with days per month	runmin	Running minimum	seaspctl	Seasonal percentiles	interpolate	PINGO grid interpolation
divdpm	Divide by days per month	runmax	Running maximum		seaspctl,p ifile1 ifile2 ifile3 ofile	intgridbil	Bilinear grid interpolation
muldpy	Multiply with days per year	runsum	Running sum			Syntax	<pre>< operator > ,grid ifile ofile</pre>
divdpy	Divide by days per year		Running sum Running mean	ydaymin	Multi-year daily minimum		, ,,,
		runmean	_	ydaymax	Multi-year daily maximum	ml2pl	Model to pressure level interpolation
Syntax	<pre><operator> ifile ofile</operator></pre>	runavg	Running average	ydaysum	Multi-year daily sum	Syntax	ml2pl,plevels ifile ofile
		runvar	Running variance	ydaymean	Multi-year daily mean	ml2hl	Model to height level interpolation
		runstd	Running standard deviation	ydayavg	Multi-year daily average	Syntax	ml2hl,hlevels ifile ofile
		Syntax	$<\!operator\!>,\!nts$ ifile ofile	ydayvar	Multi-year daily variance	inttime	Time interpolation
		runpctl	Running percentiles	ydaystd	Multi-year daily standard deviation		
		Syntax	runpctl,p,nts ifile1 ofile		<pre><pre><pre><pre><pre><pre>operator > ifile ofile</pre></pre></pre></pre></pre></pre>	Syntax	inttime,date,time[,inc] ifile ofile
			* '/4 '/		*	intntime	Time interpolation
Statistical val	ues	timmin	Time minimum	ydaypctl	Multi-year daily percentiles	Syntax	intntime,n ifile ofile
		timmax	Time maximum	Syntax	ydaypctl,p ifile1 ifile2 ifile3 ofile	intyear	Year interpolation
ensmin	Ensemble minimum	timsum	Time sum		Multi-year monthly minimum	Syntax	intyear, years ifile1 ifile2 oprefix
ensmax	Ensemble maximum	timmean	Time mean	ymonmin		Dyntax	intyear, years liller lillez opielix
enssum	Ensemble sum	timavg	Time average	ymonmax	Multi-year monthly maximum		
ensmean	Ensemble mean	timvar	Time variance	ymonsum	Multi-year monthly sum		
Chamean	Elisemble mean			ymonmean	Multi-year monthly mean	Transformation	on.
oncove	Encamble average	timstd	Time standard deviation	-	· ·	11 ansioi mati	OII
ensavg	Ensemble average	timstd	Time standard deviation	ymonavg	Multi-year monthly average		
ensvar	Ensemble variance	Syntax	<pre><operator> ifile ofile</operator></pre>	-	· ·	sp2gp	Spectral to gridpoint
ensvar ensstd	Ensemble variance Ensemble standard deviation		<pre>< operator > ifile ofile</pre> Time percentiles	ymonavg	Multi-year monthly average	$\begin{array}{c} \mathrm{sp2gp} \\ \mathrm{sp2gpl} \end{array}$	Spectral to gridpoint Spectral to gridpoint (linear)
ensvar ensstd Syntax	Ensemble variance Ensemble standard deviation <pre>coperator > ifiles ofile</pre>	Syntax	<pre><operator> ifile ofile</operator></pre>	ymonavg ymonvar	Multi-year monthly average Multi-year monthly variance	$\begin{array}{c} \mathrm{sp2gp} \\ \mathrm{sp2gpl} \\ \mathrm{gp2sp} \end{array}$	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral
ensvar ensstd Syntax enspctl	Ensemble variance Ensemble standard deviation <pre>coperator> ifiles ofile</pre> Ensemble percentiles	Syntax timpctl Syntax	<pre><operator> ifile ofile Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile</operator></pre>	ymonavg ymonvar ymonstd Syntax	Multi-year monthly average Multi-year monthly variance Multi-year monthly standard deviation <operator> ifile ofile</operator>	$\begin{array}{c} \mathrm{sp2gp} \\ \mathrm{sp2gpl} \\ \mathrm{gp2sp} \\ \mathrm{gp2spl} \end{array}$	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear)
ensvar ensstd Syntax	Ensemble variance Ensemble standard deviation <pre>coperator > ifiles ofile</pre>	Syntax timpctl Syntax hourmin	<pre><operator> ifile ofile Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum</operator></pre>	ymonavg ymonvar ymonstd Syntax	Multi-year monthly average Multi-year monthly variance Multi-year monthly standard deviation <operator> ifile ofile Multi-year monthly percentiles</operator>	sp2gp sp2gpl gp2sp gp2spl Syntax	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) < operator > ifile ofile
ensvar ensstd Syntax enspctl	Ensemble variance Ensemble standard deviation <pre><operator> ifiles ofile</operator></pre> Ensemble percentiles enspctl,p ifiles ofile	Syntax timpctl Syntax hourmin hourmax	<pre><operator> ifile ofile Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum</operator></pre>	ymonavg ymonvar ymonstd Syntax	Multi-year monthly average Multi-year monthly variance Multi-year monthly standard deviation <operator> ifile ofile</operator>	sp2gp sp2gpl gp2sp gp2spl Syntax sp2sp	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) <pre><operator> ifile ofile</operator></pre> Spectral to spectral
ensvar ensstd Syntax enspctl Syntax fldmin	Ensemble variance Ensemble standard deviation <pre><operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum</operator></pre>	Syntax timpctl Syntax hourmin hourmax hoursum	<pre></pre> <pre></pre> <pre>Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile</pre> Hourly minimum Hourly maximum Hourly sum	ymonavg ymonvar ymonstd Syntax	Multi-year monthly average Multi-year monthly variance Multi-year monthly standard deviation <operator> ifile ofile Multi-year monthly percentiles</operator>	sp2gp sp2gpl gp2sp gp2spl Syntax	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) < operator > ifile ofile
ensvar ensstd Syntax enspetl Syntax fldmin fldmax	Ensemble variance Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum Field maximum</operator>	Syntax timpctl Syntax hourmin hourmax hoursum hourmean	<pre><operator> ifile ofile Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly mean</operator></pre>	ymonavg ymonvar ymonstd Syntax ymonpctl Syntax yseasmin	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</operator>	sp2gp sp2gpl gp2sp gp2spl Syntax sp2sp Syntax	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) <pre><operator> ifile ofile</operator></pre> Spectral to spectral sp2sp,trunc ifile ofile
ensvar ensstd Syntax enspectl Syntax fldmin fldmax fldsum	Ensemble variance Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum Field sum</operator>	Syntax timpctl Syntax hourmin hourmax hoursum hoursum houravg	<pre><operator> ifile ofile Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly mean Hourly average</operator></pre>	ymonavg ymonvar ymonstd Syntax ymonpctl Syntax yseasmin yseasmax	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</operator>	sp2gp sp2gpl gp2sp gp2spl Syntax sp2sp Syntax dv2uv	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) <pre><operator> ifile ofile</operator></pre> Spectral to spectral sp2sp,trunc ifile ofile Divergence and vorticity to U and V wind
ensvar ensstd Syntax enspettl Syntax fldmin fldmax fldsum fldmean	Ensemble variance Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum Field maximum Field mean</operator>	Syntax timpctl Syntax hourmin hourmax hoursum hourmean houravg hourvar	<pre><operator> ifile ofile Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly wean Hourly average Hourly variance</operator></pre>	ymonavg ymonvar ymonstd Syntax ymonpctl Syntax yseasmin yseasmax yseassum	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 sum</operator>	sp2gp sp2gpl gp2sp gp2spl Syntax sp2sp Syntax dv2uv dv2uvl	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral (linear) <operator> ifile ofile Spectral to spectral sp2sp,trunc ifile ofile Divergence and vorticity to U and V wind Divergence and vorticity to U and V wind (linear)</operator>
ensvar ensstd Syntax enspetl Syntax fldmin fldmax fldsum fldmean fldavg	Ensemble variance Ensemble standard deviation <pre><operator> ifiles ofile Ensemble percentiles enspctl,p ifiles ofile Field minimum Field maximum Field sum Field sum Field average</operator></pre>	Syntax timpctl Syntax hourmin hourmax hoursum hoursum houravg	<pre><operator> ifile ofile Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly mean Hourly average</operator></pre>	ymonavg ymonvar ymonstd Syntax ymonpctl Syntax yseasmin yseasmax yseassum yseasman	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 sum Multi-year seasonal sum Multi-year seasonal mean</operator>	sp2gp sp2gpl gp2sp gp2spl sp2spl sp2sp Syntax dv2uv dv2uvl 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 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</operator>
ensvar ensstd Syntax enspetl Syntax fldmin fldmax fldsum fldmean fldavg fldvar	Ensemble variance Ensemble standard deviation <operator> ifiles ofile Ensemble percentiles enspetl,p ifiles ofile Field minimum Field maximum Field sum Field mean Field average Field variance</operator>	Syntax timpctl Syntax hourmin hourmax hoursum hourmean houravg hourvar	<pre></pre> <pre>< operator > ifile ofile Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile Hourly minimum Hourly maximum Hourly sum Hourly wean Hourly average Hourly variance</pre>	ymonavg ymonvar ymonstd Syntax ymonpctl Syntax yseasmin yseasmax yseassum yseassum yseassum	Multi-year monthly average Multi-year monthly variance Multi-year monthly standard deviation <pre><operator> ifile ofile</operator></pre> 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	sp2gp sp2gpl gp2spl gp2spl Syntax sp2sp Syntax dv2uv dv2uvl uv2dv uv2dv	Spectral to gridpoint Spectral to gridpoint (linear) Gridpoint to spectral Gridpoint to spectral Gridpoint to spectral (linear) <operator> ifile ofile Spectral to spectral sp2sp,trunc 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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timsort Syntax	Sort over the time timsort ifile ofile	eca_r95p Syntax	Very wet days wrt 95th percentile of reference period eca_r95p ifile1 ifile2 ofile
const Syntax	Create a constant field const,const,grid ofile	eca_r95ptot Syntax	Precipitation percent due to R95p days eca_r95ptot ifile1 ifile2 ofile
random Syntax	Create a field with random values random,grid ofile	eca_r99p Syntax	Extremely wet days wrt 99th percentile of reference eca_r99p ifile1 ifile2 ofile
vardup Syntax	Duplicate variables vardup ifile ofile	eca_r99ptot Syntax	Precipitation percent due to R99p days eca_r99ptot ifile1 ifile2 ofile
varmul Syntax	Multiply variables varmul,nmul ifile ofile	eca_rr1 Syntax	Wet days index per time period eca_rr1 ifile ofile
rotuvb Syntax	Backward rotation rotuvb,u,v, ifile ofile	eca_rx1day Syntax	Highest one day precipitation amount per time periodeca_rxlday[,mode] ifile ofile
mastrfu Syntax	Mass stream function mastrfu ifile ofile	eca_rx5day Syntax	Highest five-day precipitation amount per time periodeca_rx5day[,x] ifile ofile
hi Syntax	Humidity index (C) hi ifile1 ifile2 ifile3 ofile	eca_sdii	Simple daily intensity index per time period eca_sdii ifile ofile
wct Syntax	Windchill temperature (C) wct ifile1 ifile2 ofile	Syntax eca_strwin	Strong wind days index per time period
		Syntax eca_strbre	Strong breeze days index per time period
CA indices	Constitution described and the second	Syntax	eca_strbre ifile ofile
eca_cdd Syntax	Consecutive dry days index per time period eca_cdd ifile ofile	eca_strgal Syntax	Strong gale days index per time period eca_strgal ifile ofile
eca_cfd Syntax	Consecutive frost days index per time period eca_cfd ifile ofile	eca_hurr Syntax	Hurricane days index per time period eca_hurr ifile ofile
eca_csu Syntax	Consecutive summer days index per time period eca_csu[,T] ifile ofile	eca_su Syntax	Summer days index per time period $eca_su[,T]$ ifile ofile
eca_cwd Syntax	Consecutive wet days index per time period eca_cwd ifile ofile	eca_tg10p Syntax	Cold days percent wrt 10th percentile of reference peca_tg10p ifile1 ifile2 ofile
eca_cwdi Syntax	Cold wave duration index wrt mean of reference pe eca_cwdi[,nday[,T]] ifile1 ifile2 ofile	riœca_tg90p Syntax	Warm days percent wrt 90th percentile of reference eca_tg90p ifile1 ifile2 ofile
eca_cwfi Syntax	Cold-spell days index wrt 10th percentile of referencea_cwfi[,nday] ifile1 ifile2 ofile	de quaitd10p Syntax	Cold nights percent wrt 10th percentile of reference eca_tn10p ifile1 ifile2 ofile
eca_etr Syntax	Intra-period extreme temperature range eca_etr ifile1 ifile2 ofile	eca_tn90p Syntax	Warm nights percent wrt 90th percentile of reference eca_tn90p ifile1 ifile2 ofile
eca_fd Syntax	Frost days index per time period eca_fd ifile ofile	eca_tr Syntax	Tropical nights index per time period eca_tr[,T] ifile ofile
eca_fdns Syntax	Frost days where no snow index per time period eca_fdns ifile1 ifile2 ofile	eca_tx10p Syntax	Very cold days percent wrt 10th percentile of reference. eca_tx10p ifile1 ifile2 ofile
eca_gsl Syntax	Growing season length index eca_gsl[,nday[,T]] ifile ofile	eca_tx90p Syntax	Very warm days percent wrt 90th percentile of reference.ca_tx90p ifile1 ifile2 ofile
eca_hd Syntax	Heating degree days per time period eca_hd[,T1[,T2]] ifile ofile		
eca_hwdi Syntax	Heat wave duration index wrt mean of reference pe eca_hwdi[,nday[,T]] ifile1 ifile2 ofile	eriod	
eca_hwfi Syntax	Warm spell days index wrt 90th percentile of referencea_hwfi[,nday] ifile1 ifile2 ofile	ence period	
eca_id Syntax	Ice days index per time period eca.id ifile ofile		
eca_r10mm Syntax	Heavy precipitation days index per time period eca_r10mm ifile ofile		
eca_r20mm Syntax	Very heavy precipitation days index per time periodeca_r20mm ifile ofile	d	
eca_r 75 p Syntax	Moderate wet days wrt 75th percentile of reference eca_r75p ifile1 ifile2 ofile	period	
eca_r75ptot Syntax	Precipitation percent due to R75p days eca_r75ptot ifile1 ifile2 ofile		
eca_r90p Syntax	Wet days wrt 90th percentile of reference period eca_r90p ifile1 ifile2 ofile		
eca_r90ptot Syntax	Precipitation percent due to R90p days eca_r90ptot ifile1 ifile2 ofile		